

FIG. 1

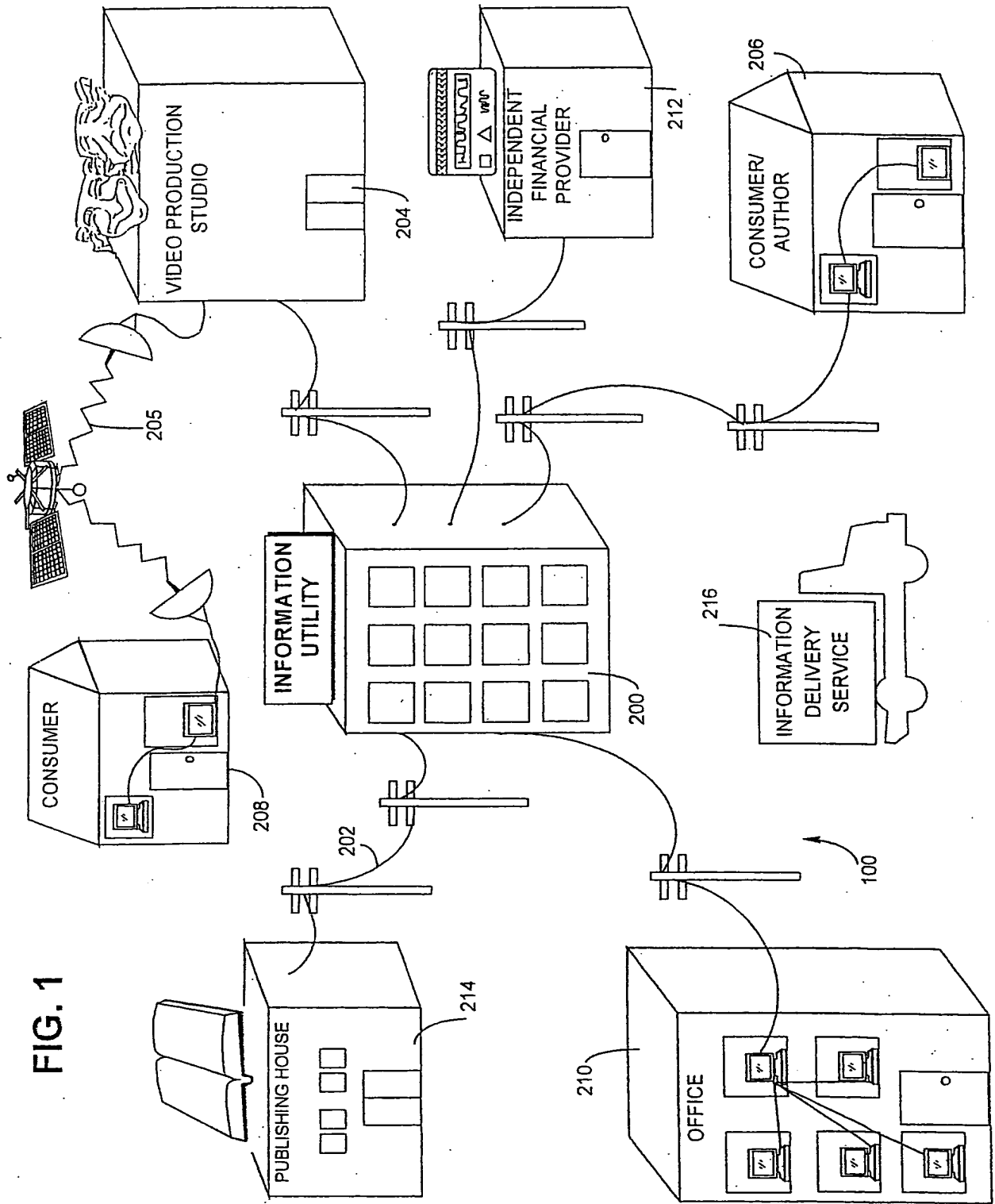


FIG. 1A

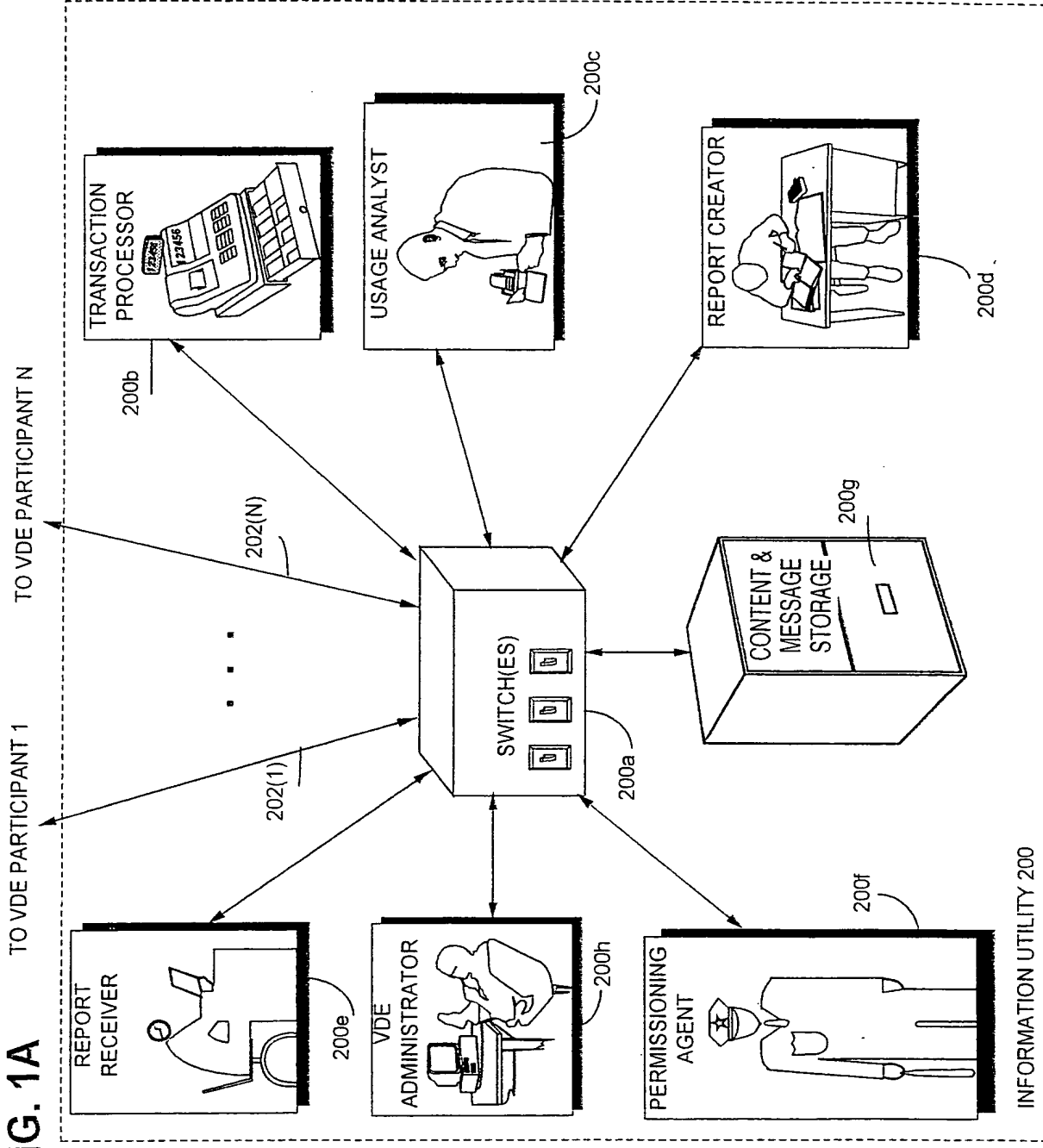


FIG. 2

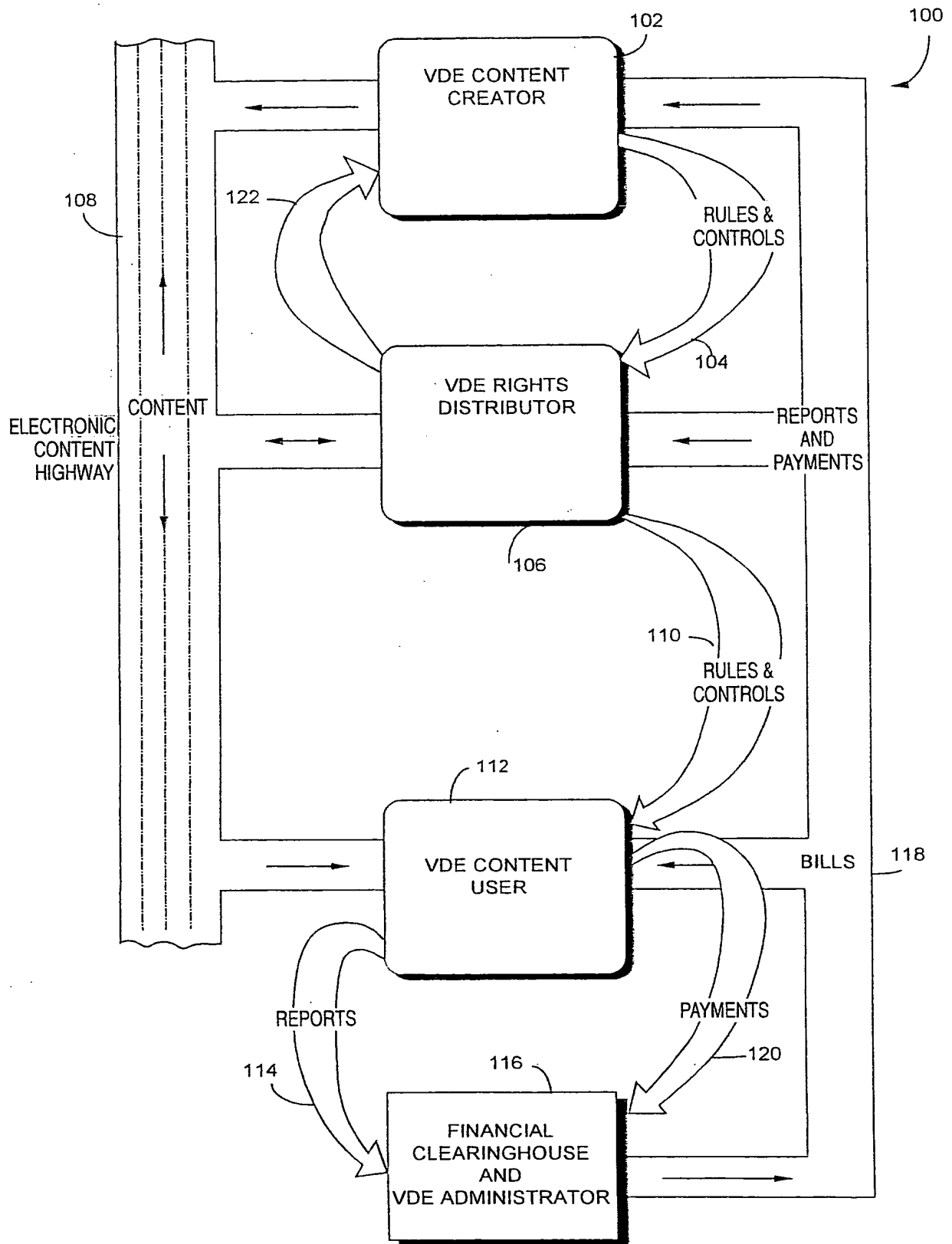


FIG. 2A

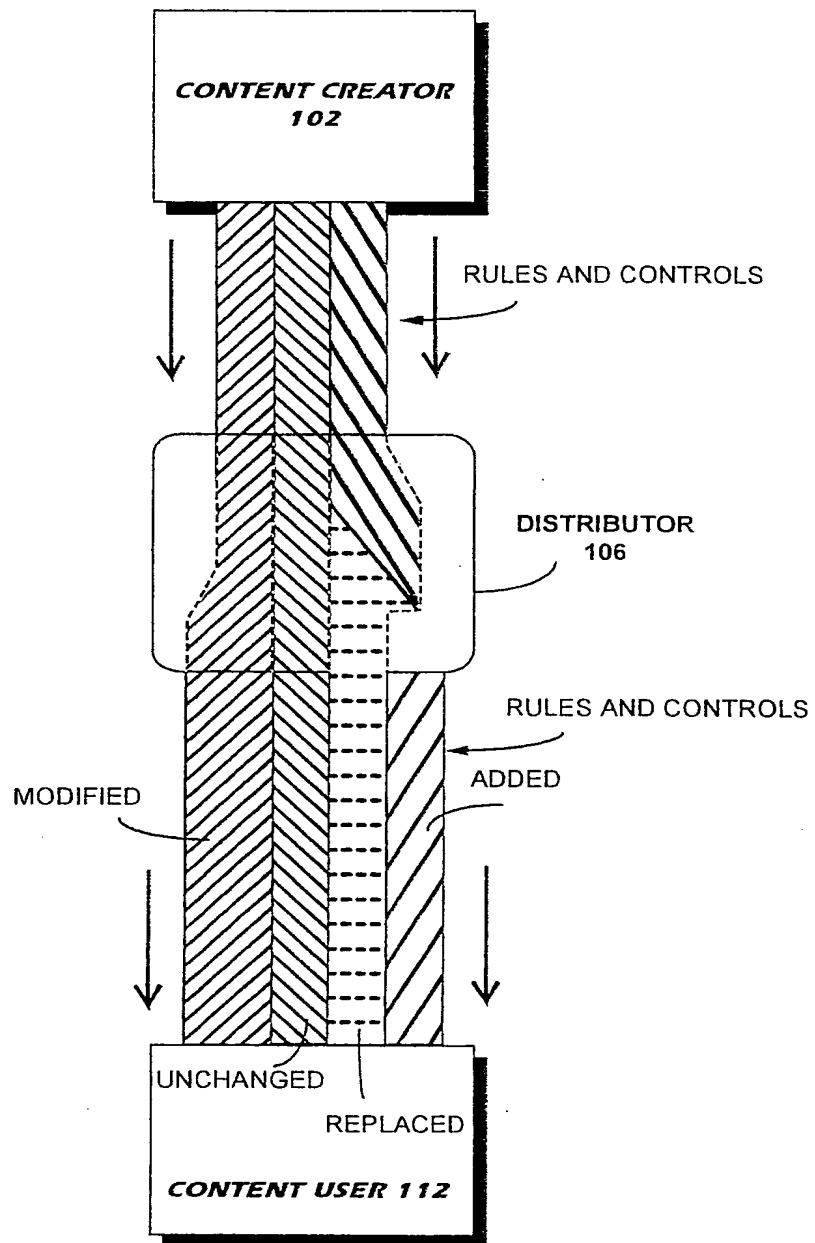
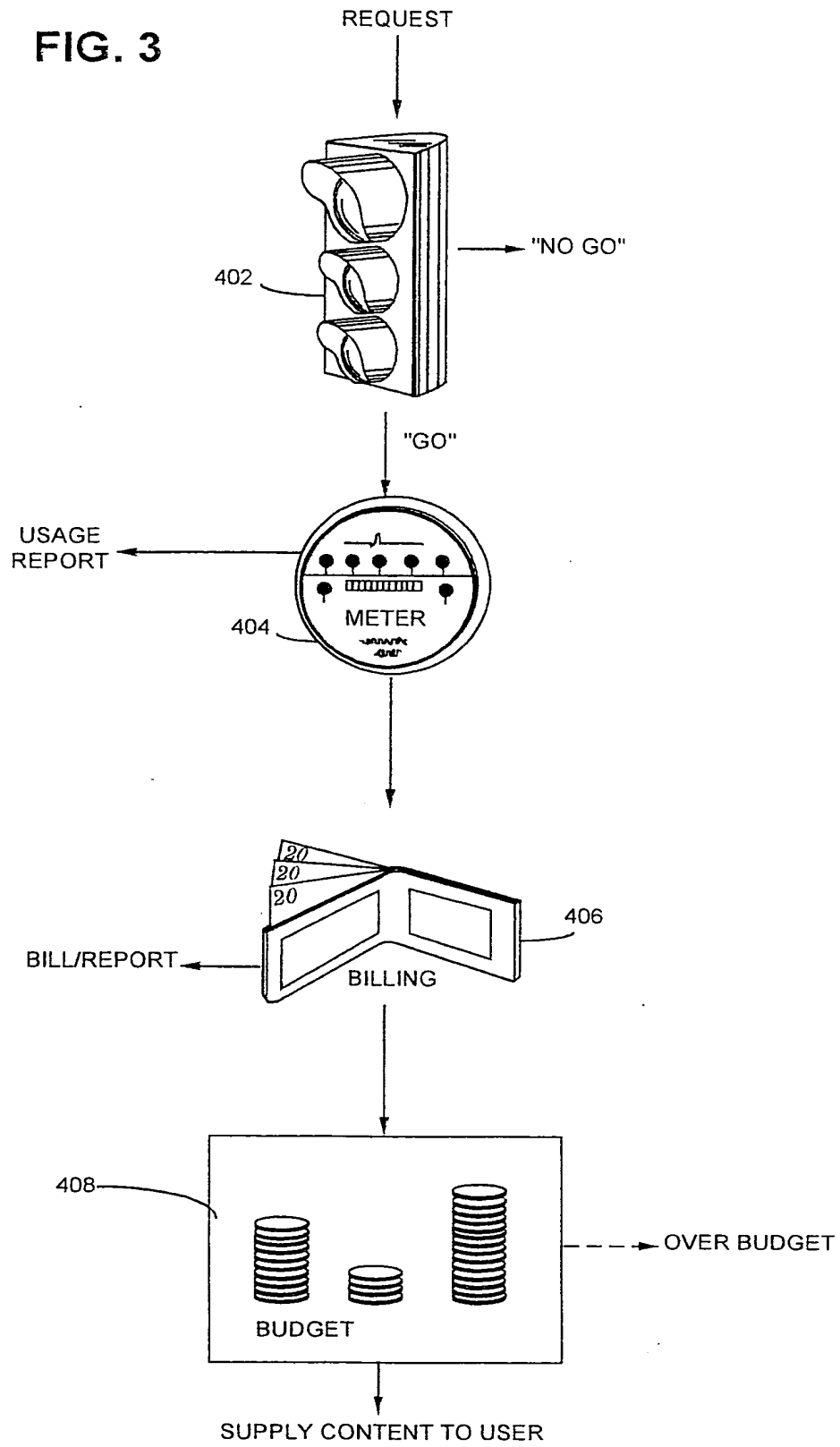


FIG. 3



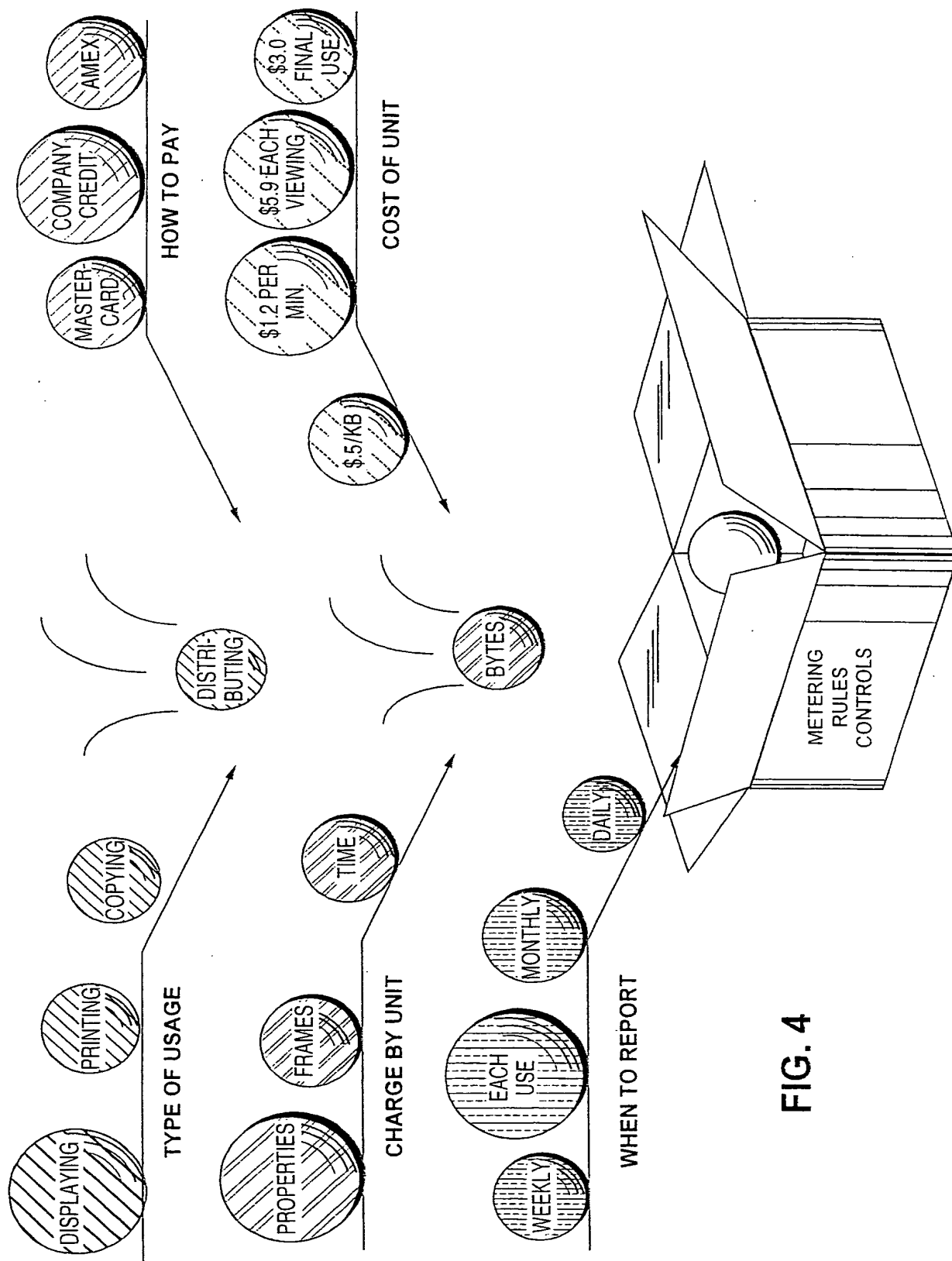


FIG. 4

FIG. 5A

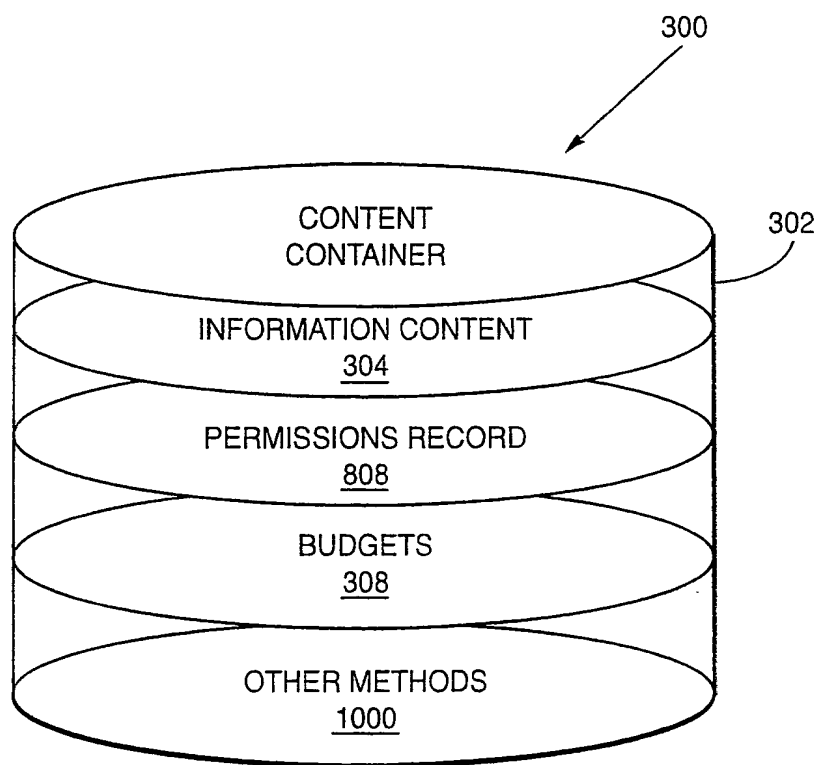
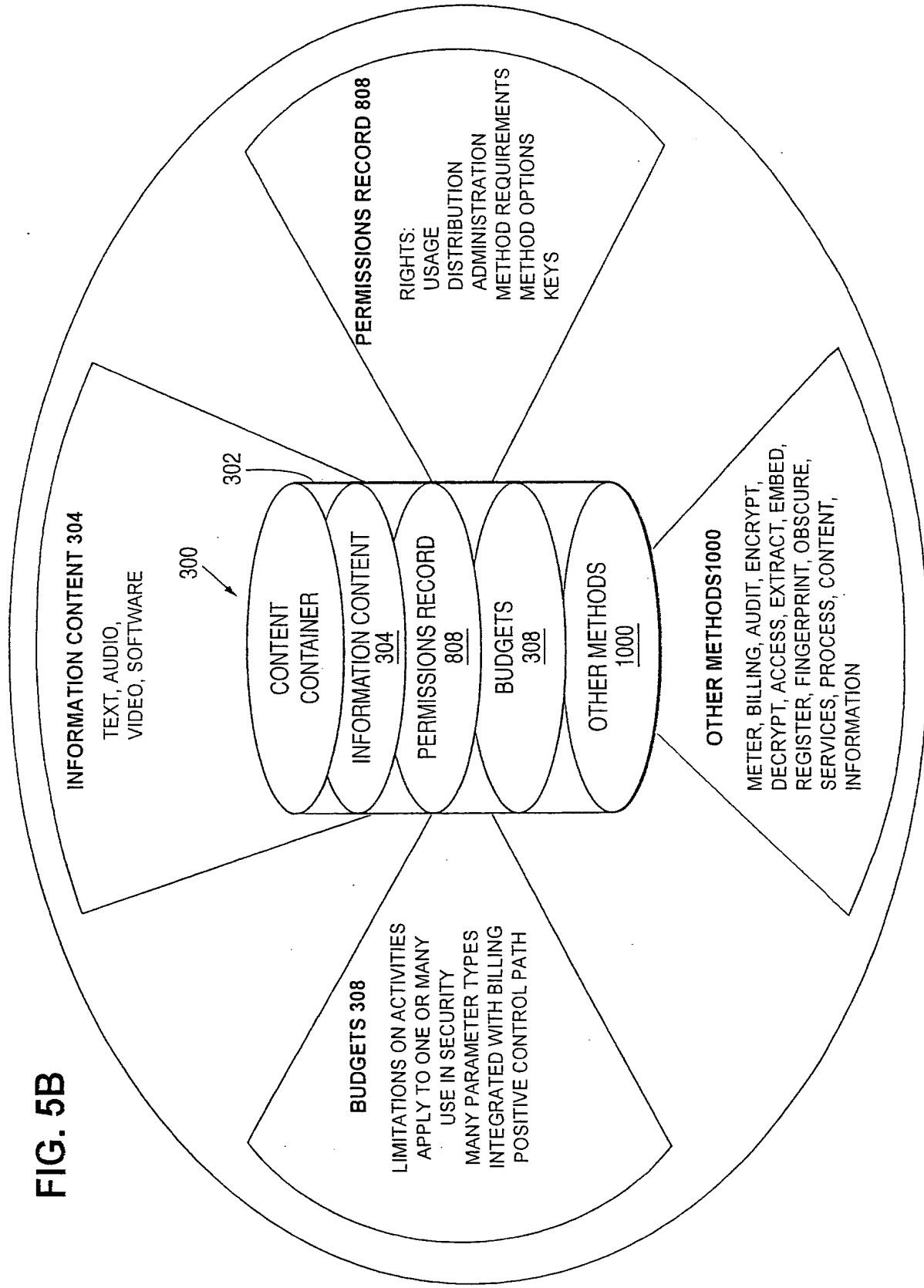


FIG. 5B



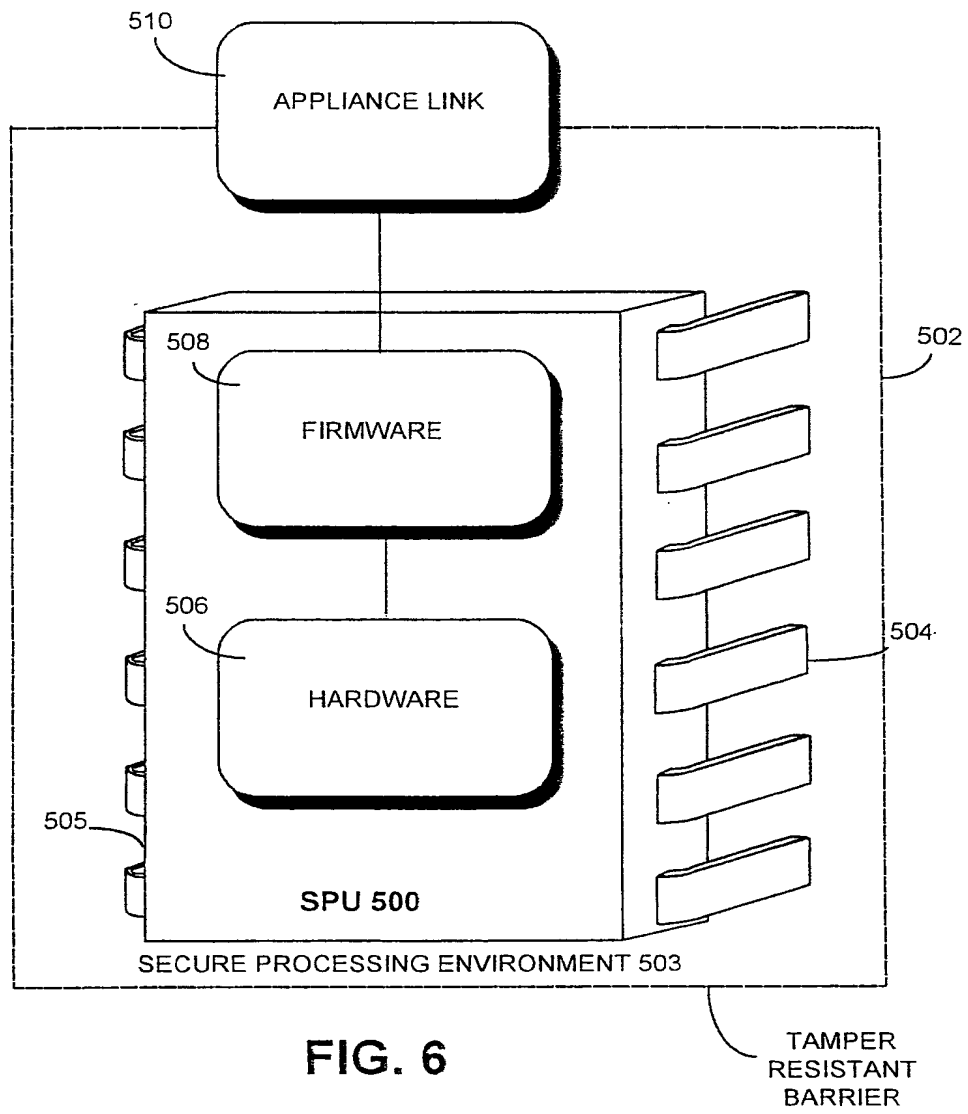


FIG. 7

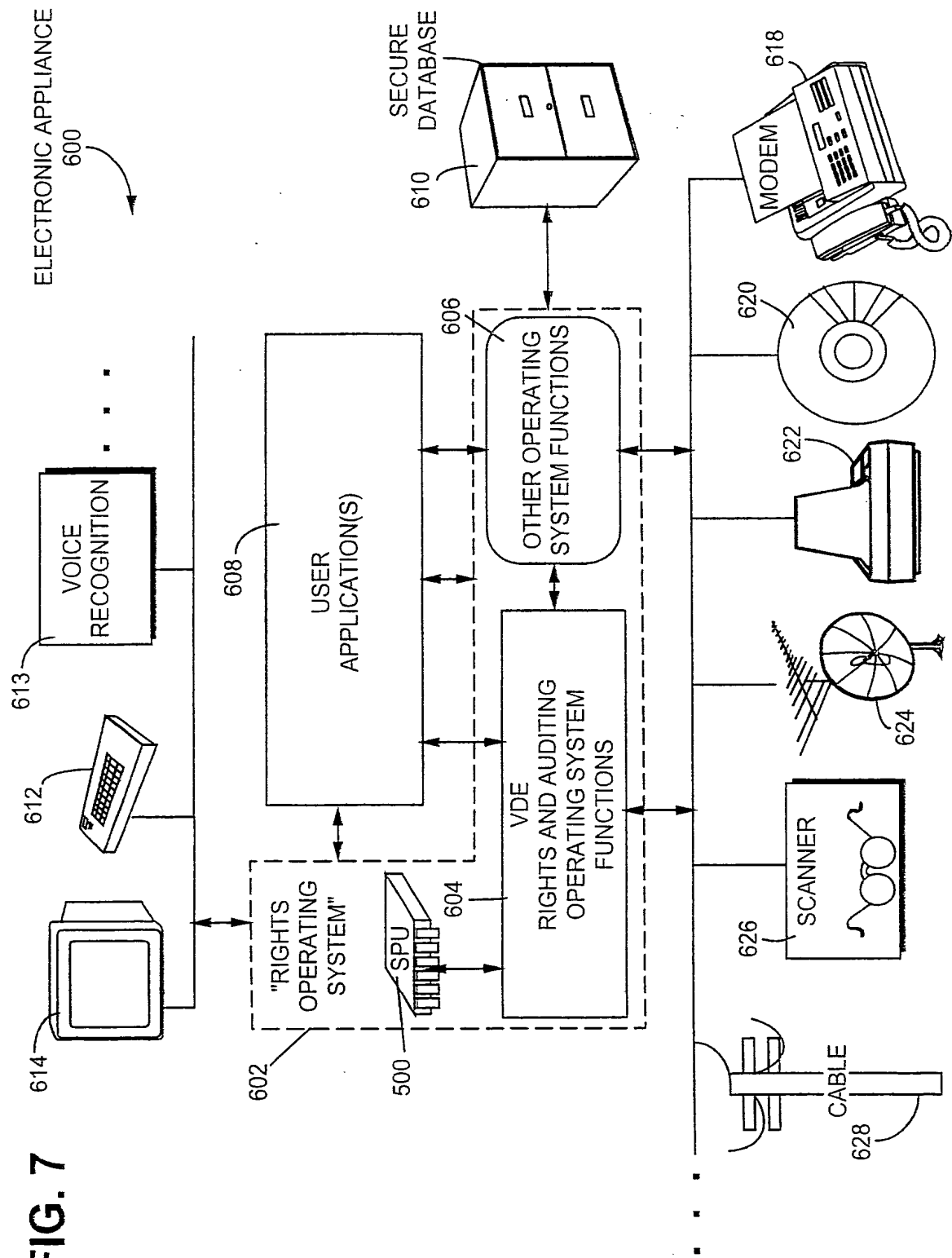
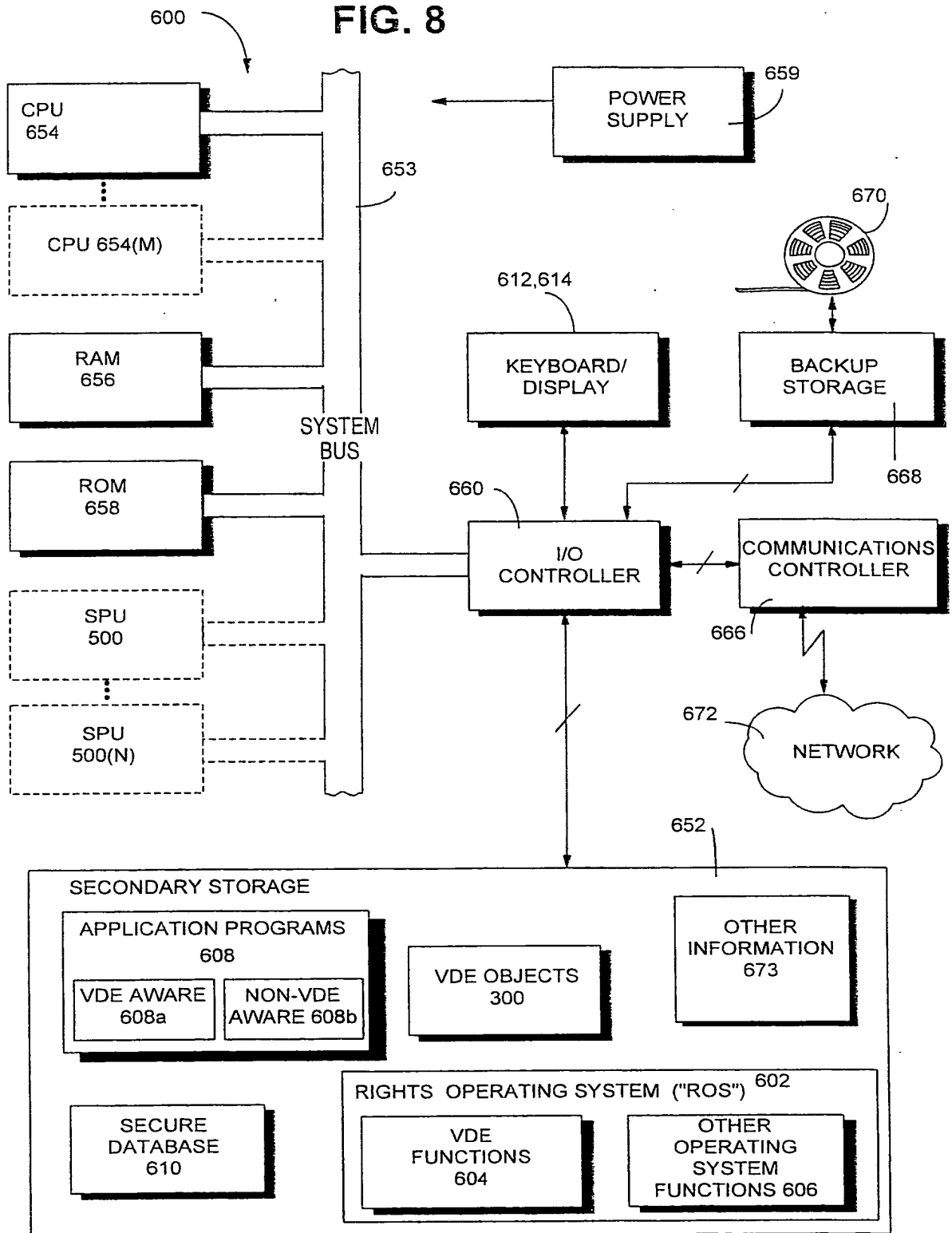


FIG. 8



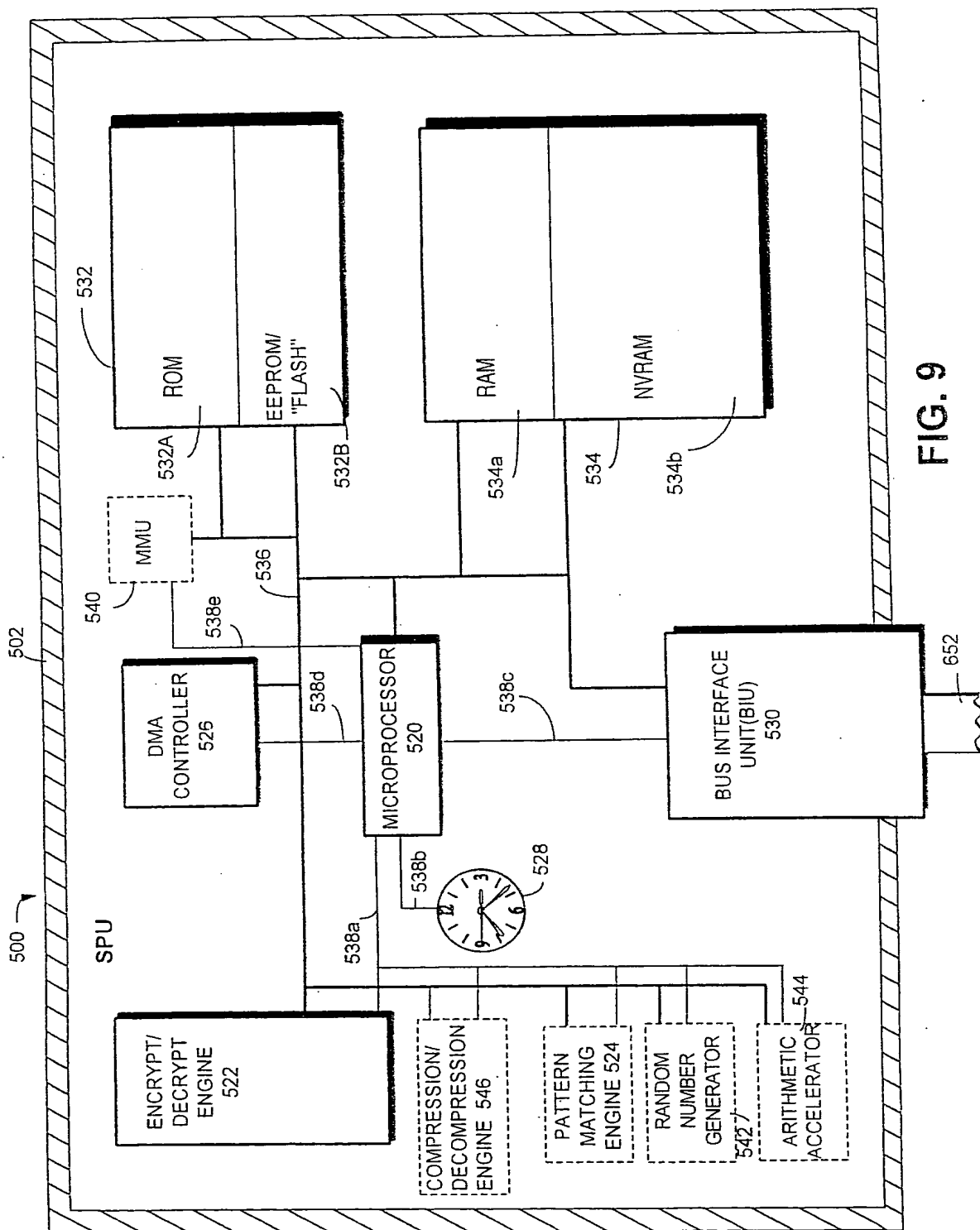


FIG. 9

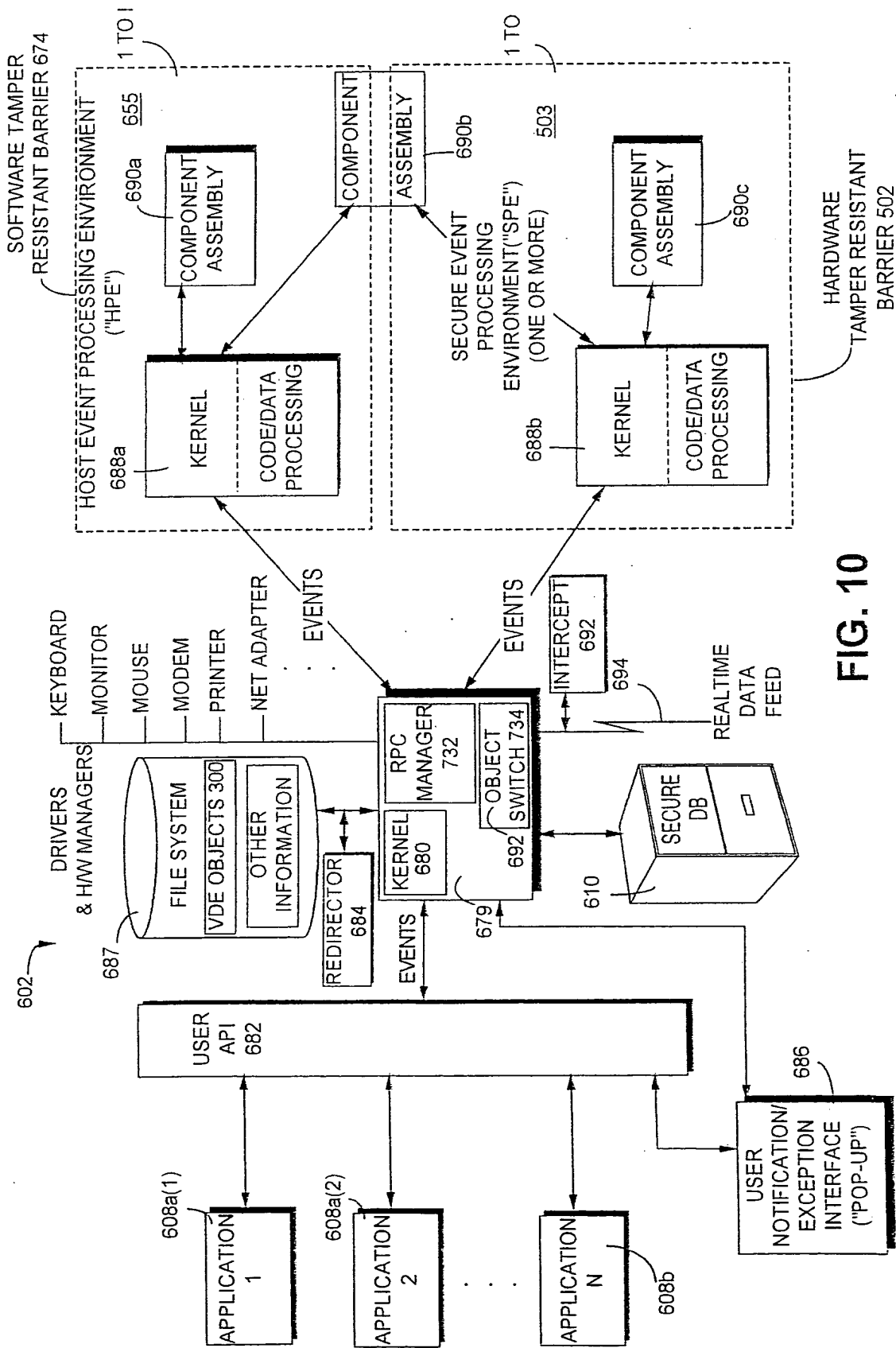


FIG. 10

FIG. 11C

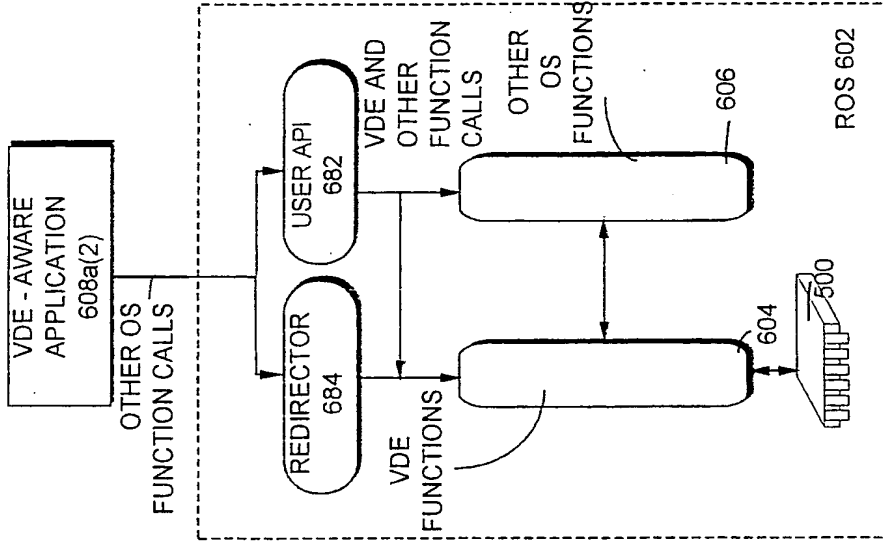


FIG. 11B

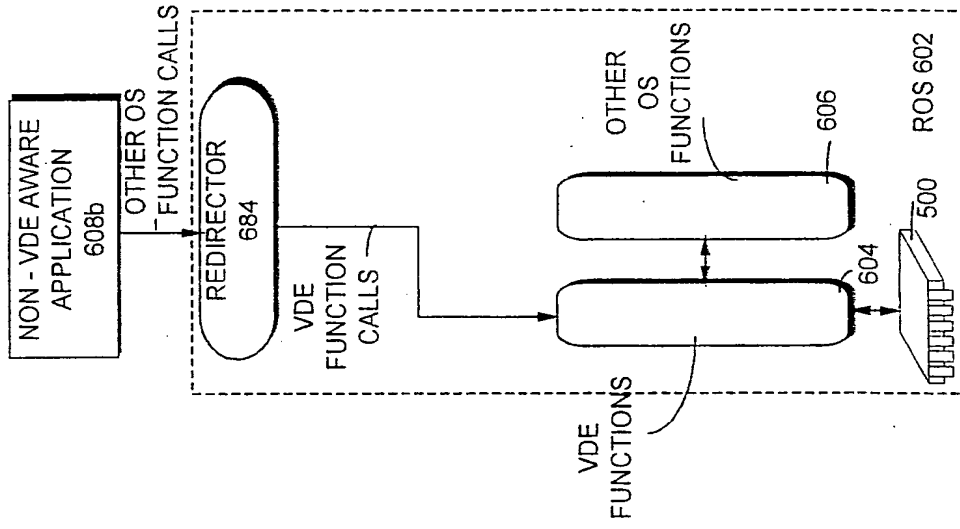
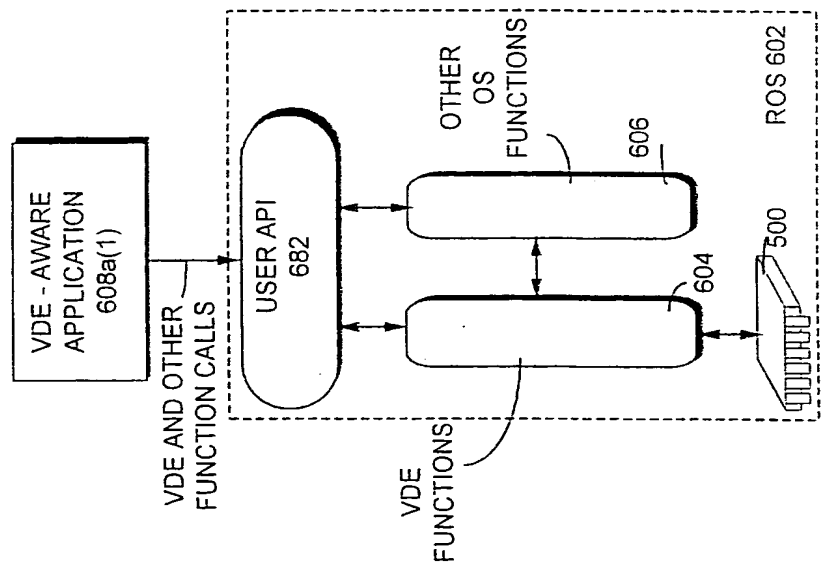


FIG. 11A



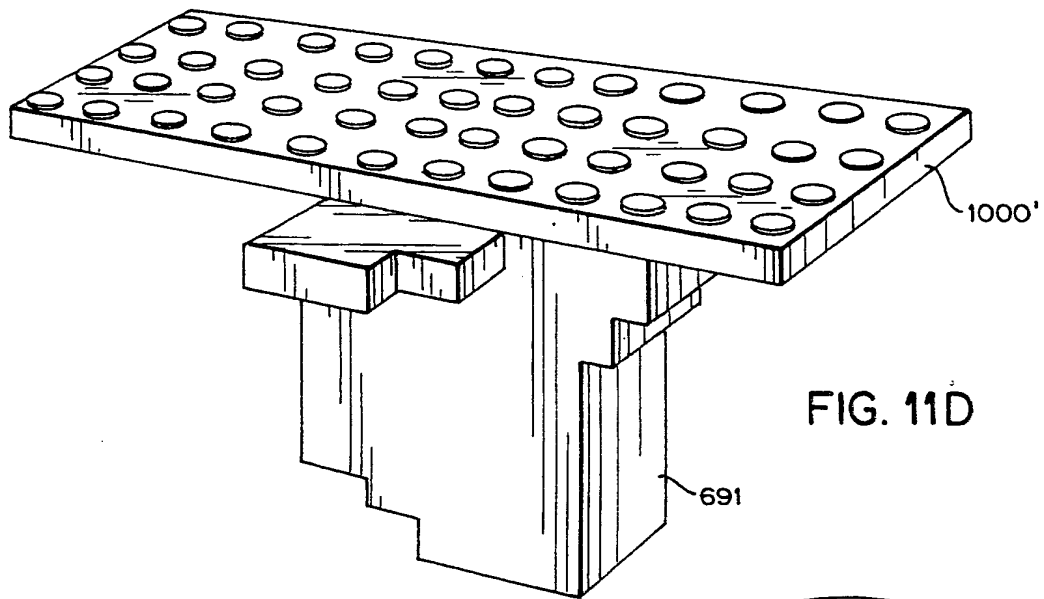


FIG. 11D

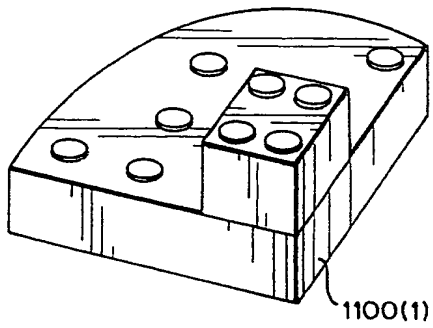


FIG. 11E

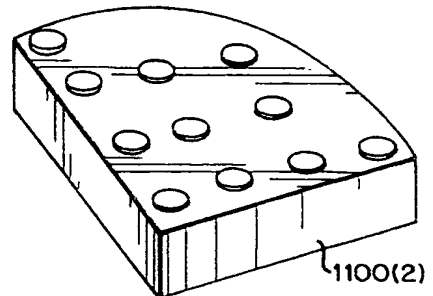


FIG. 11F

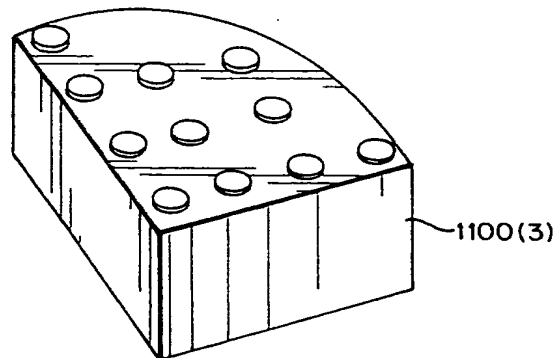


FIG. 11G

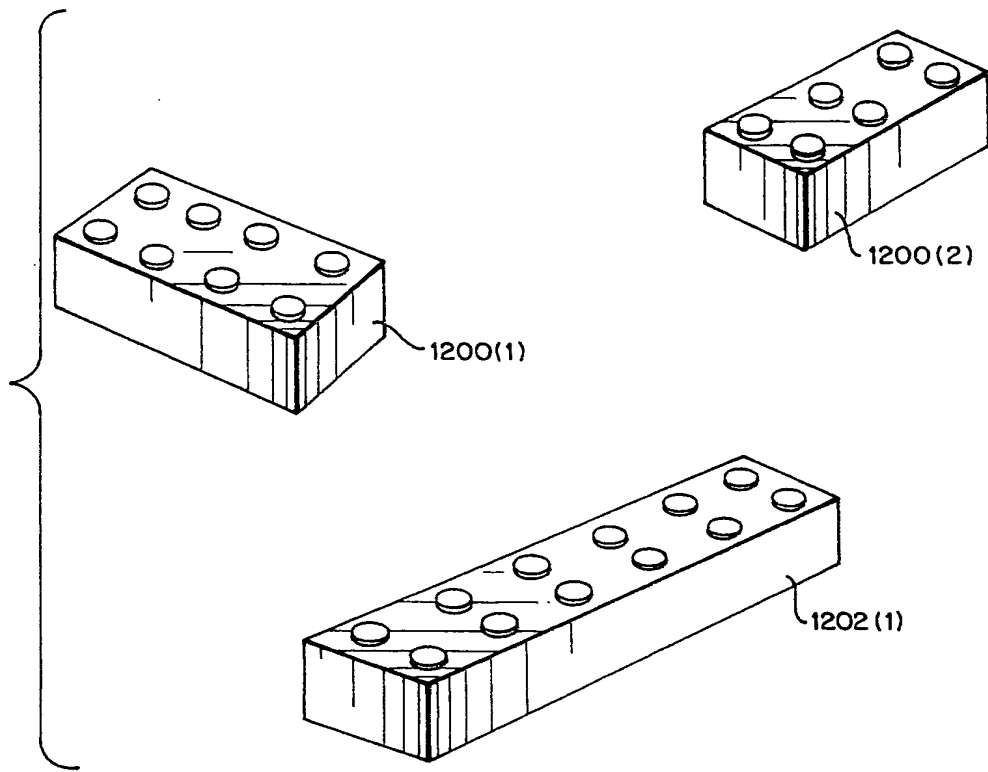
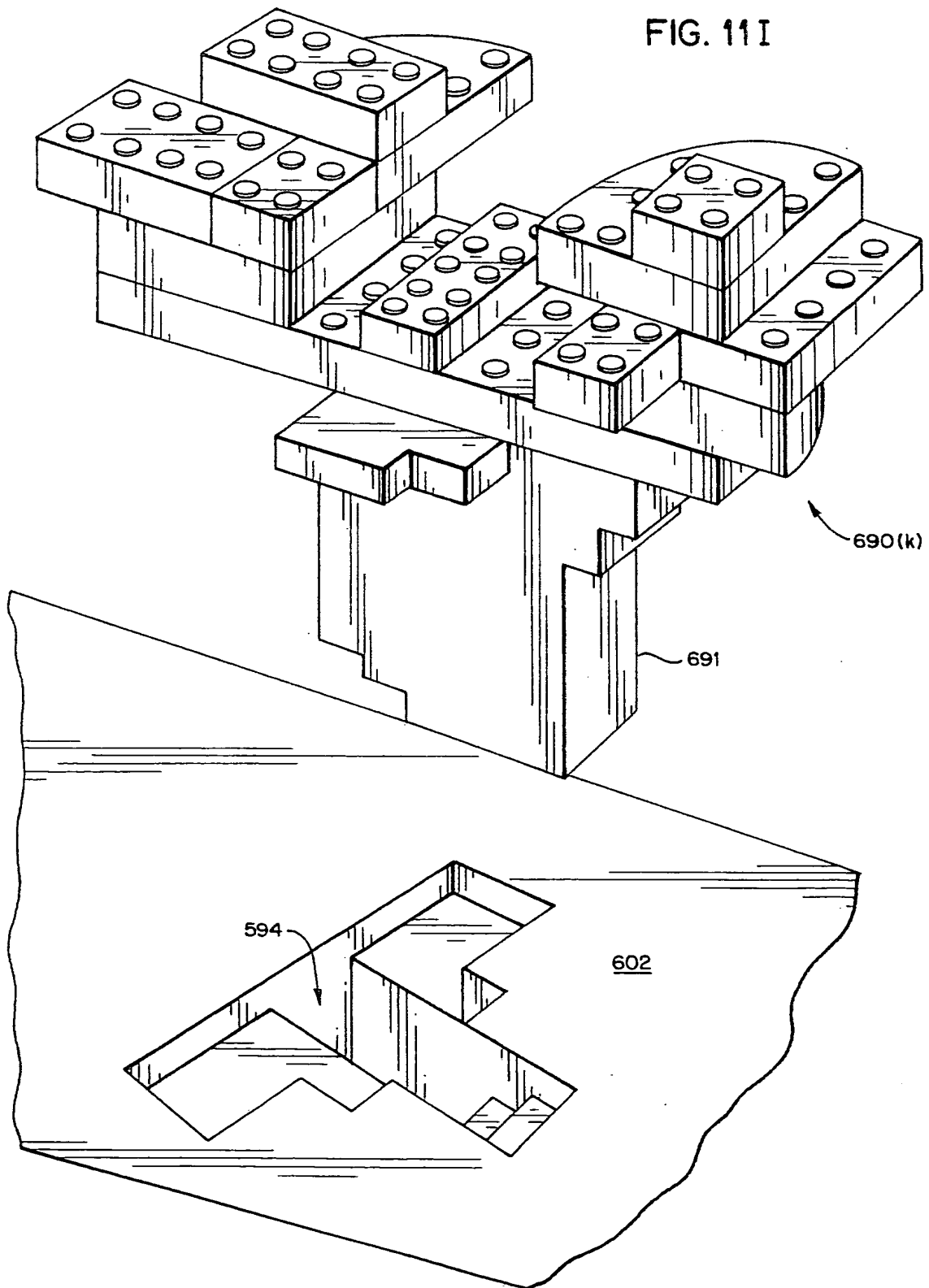
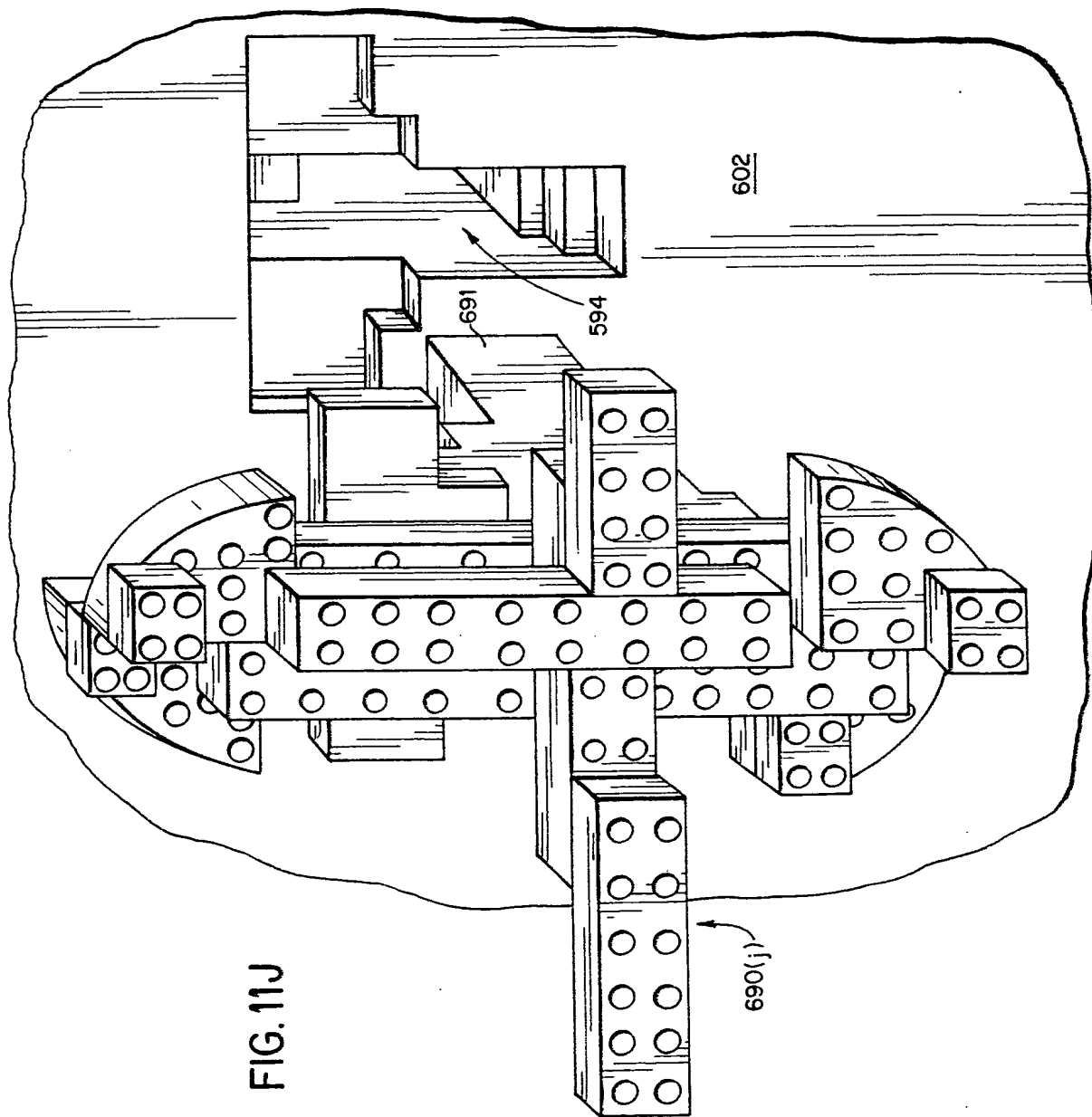


FIG. 11H

FIG. 11I





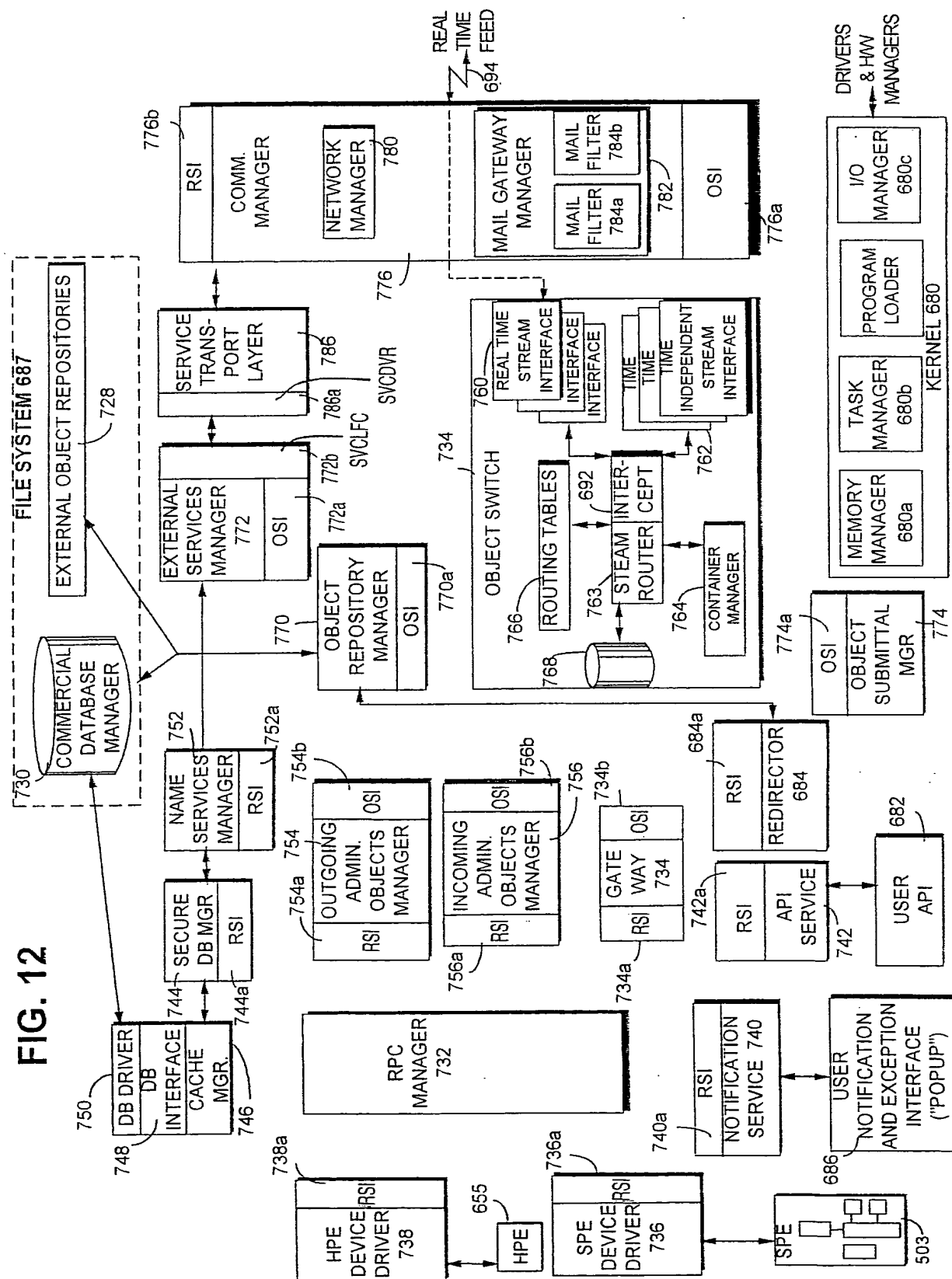
[illegible]

FIG. 12A

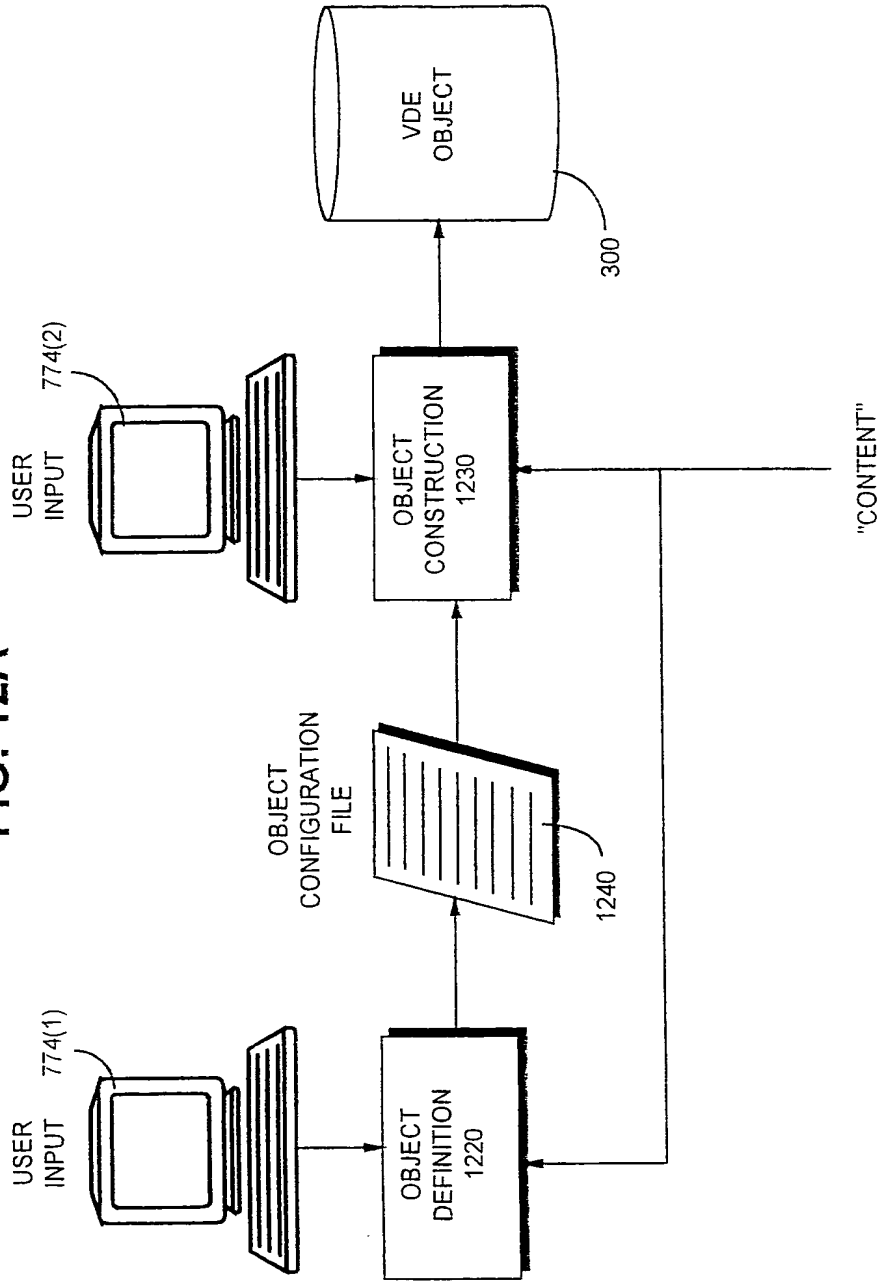


FIG. 13

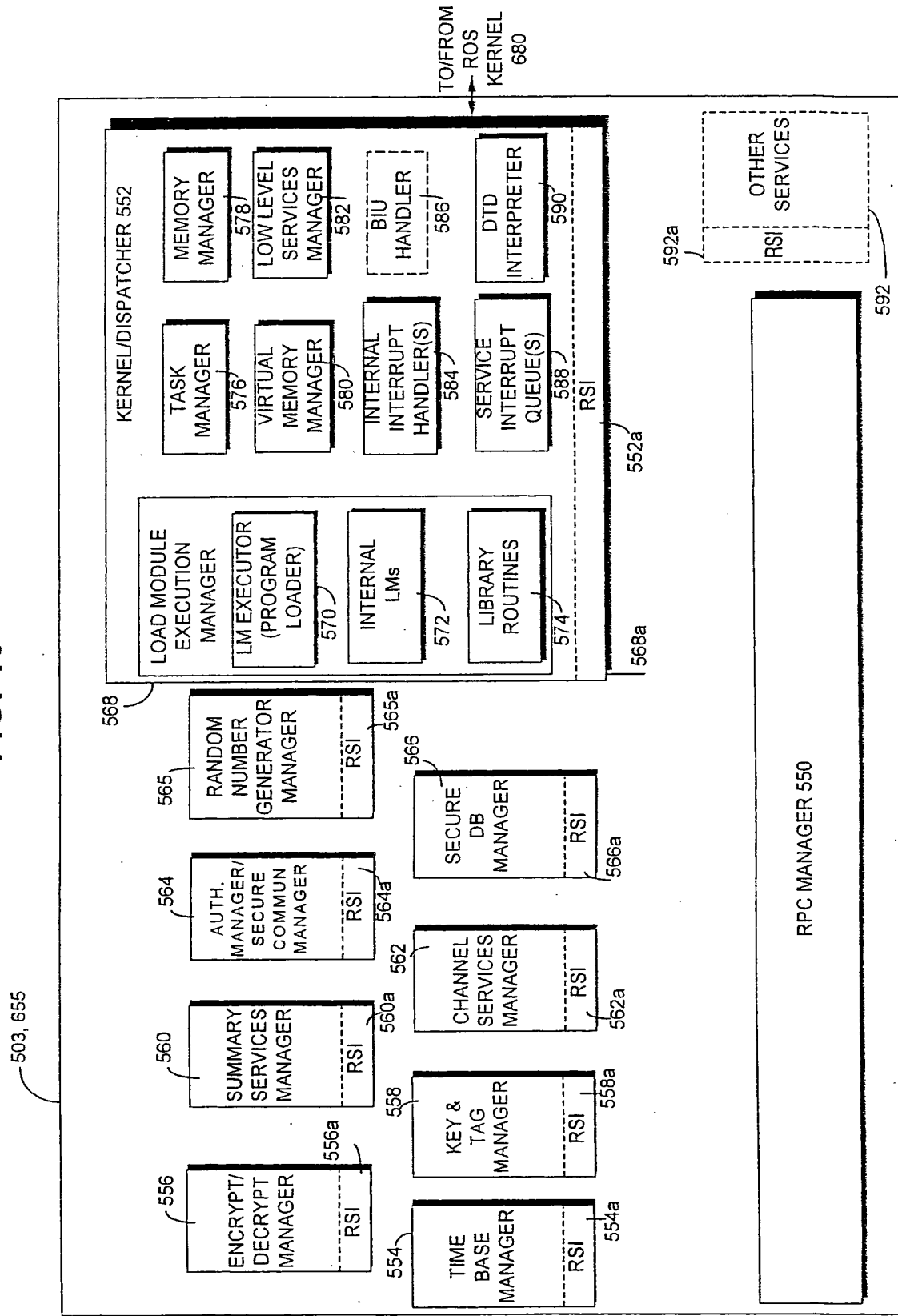


FIG. 14A

DEVICE FIRM WIRE LOW LEVEL SERVICES 582	TIME BASE MANAGER 554
INITIALIZATION	ENCRYPTION/DECRYPTION MANAGER 556
POST	PK
DOWNLOAD CHALLENGE/RESPONSE AND AUTHENTICATION	BULK
RECOVERY	KEY AND TAG MANAGER 558
EEPROM/FLASH MEMORY MANAGER	KEY STORAGE IN EEPROM
KERNEL/DISPATCHER 552	KEY LOCATOR
INITIALIZATION	KEY GENERATOR
TASK MANAGER 576 (SLEEP/AWAKE/CONTEXT SWAP)	CONVOLUTION ALGORITHM
INTERRUPT HANDLER 584 (TIMER/BIU/POWER FAIL/WATCHDOG TIMER/ENCRYPTION COMPLETED)	SUMMARY SERVICES MANAGER 560
BIU HANDLER 586	EVENT SUMMARIES
MEMORY MANAGER 578	BUDGET SUMMARIES
INITIALIZATION (SETTING MMU TABLES)	DISTRIBUTER SUMMARY SERVICES
ALLOCATE	CHANNEL SERVICES MANAGER 562
DEALLOCATE	CHANNEL HEADERS
VIRTUAL MEMORY MANAGER 580	CHANNEL DETAILS
SWAP BLOCK PAGING	LOAD MODULE EXECUTION SERVICES 568
EXTERNAL MODULE PAGING	AUTHENTICATION MANAGER/SECURE COMMUNICATION MANAGER 564
MEMORY COMPRESS	DATABASE MANAGER 566
RPC AND TABLES 550	MANAGEMENT FILE SUPPORT
INITIALIZATION	TRANSACTION AND SEQUENCE NUMBER SUPPORT
MESSAGING CODE /SERVICES MANAGER	SRN/ HASH
SEND/RECEIVE	DTD INTERPRETER 590
STATUS	LIBRARY ROUTINES 574
RPC DISPATCH TABLE	I/O CALLS (STRING SEARCH ETC.)
RPC SERVICE TABLE	MISC. ITEMS THAT ARE PROBABLY LIBRARY ROUTINES
	TAG CHECKING, MD5, CRC'S
	INTERNAL LM'S 572 FOR BASIC METHODS
	METER LOAD MODULE(S)
	BILLING LOAD MODULE(S)
	BUDGET LOAD MODULE(S)
	AUDIT LOAD MODULE(S)
	READ OBJECT LOAD MODULE(S)
	WRITE OBJECT LOAD MODULE(S)
	OPEN OBJECT LOAD MODULE(S)
	CLOSE OBJECT LOAD MODULE(S)

FIG. 14B

•
•
•

PUBLIC KEY AND PRIVATE KEY, SYSTEM ID, AUTHENTICATION CERTIFICATE,VDE SYSTEM PUBLIC KEY, PRIVATE DES KEY
TOP LEVEL KEYS FOR OBJECTS
TOP LEVEL BUDGET INFO
METER SUMMATION VALUES
KEY RECORDS FOR BUDGET RECORDS, AUDIT RECORDS, STATIC MANAGEMENT RECORDS, UPDATED MANAGEMENT RECORDS, ETC.
• • •
DEVICE DATA TABLE
SITE ID
TIME
ALARMS
TRANSACTION/SEQUENCE #'S
MISCELLANEOUS
MEMORY MAP
MAP METERS
LM/UDT TABLE
TASK MANAGER 576
CHANNEL(S)
SUMMARY SERVICES 560
SECURE DATABASE TAGS
SRN ENTRIES
HASH ENTRIES

•
•
•

FIG. 14C

STACK	
•	
CHANNEL SWAP BLOCK	CHANNEL LM
	CHANNEL HEADER & D1
CONTROL SWAP BLOCK	CONTROL LM
	CONTROL D1
	COMMIT LM
	COMMIT D1, D2, D3
EVENT SWAP BLOCK	EVENT LM
	MAP TABLE (SINGLE) D1
METER SWAP BLOCK	METER LM
	METER UDE DELTA,DELTA'
	METER TRAIL LM
	METER TRAIL UDE DELTA,DELTA'
BUDGET SWAP BLOCK	METER LM
	METER UDE DELTA,DELTA'
	METER TRAIL LM
	METER TRAIL UDE DELTA,DELTA'
BILLING SWAP BLOCK	BILLING LM
	METER UDE
	BUDGET UDE
	BILLING TABLE UDE
	BILLING TRAIL LM
	BILLING TRAIL UDE DELTA'

•

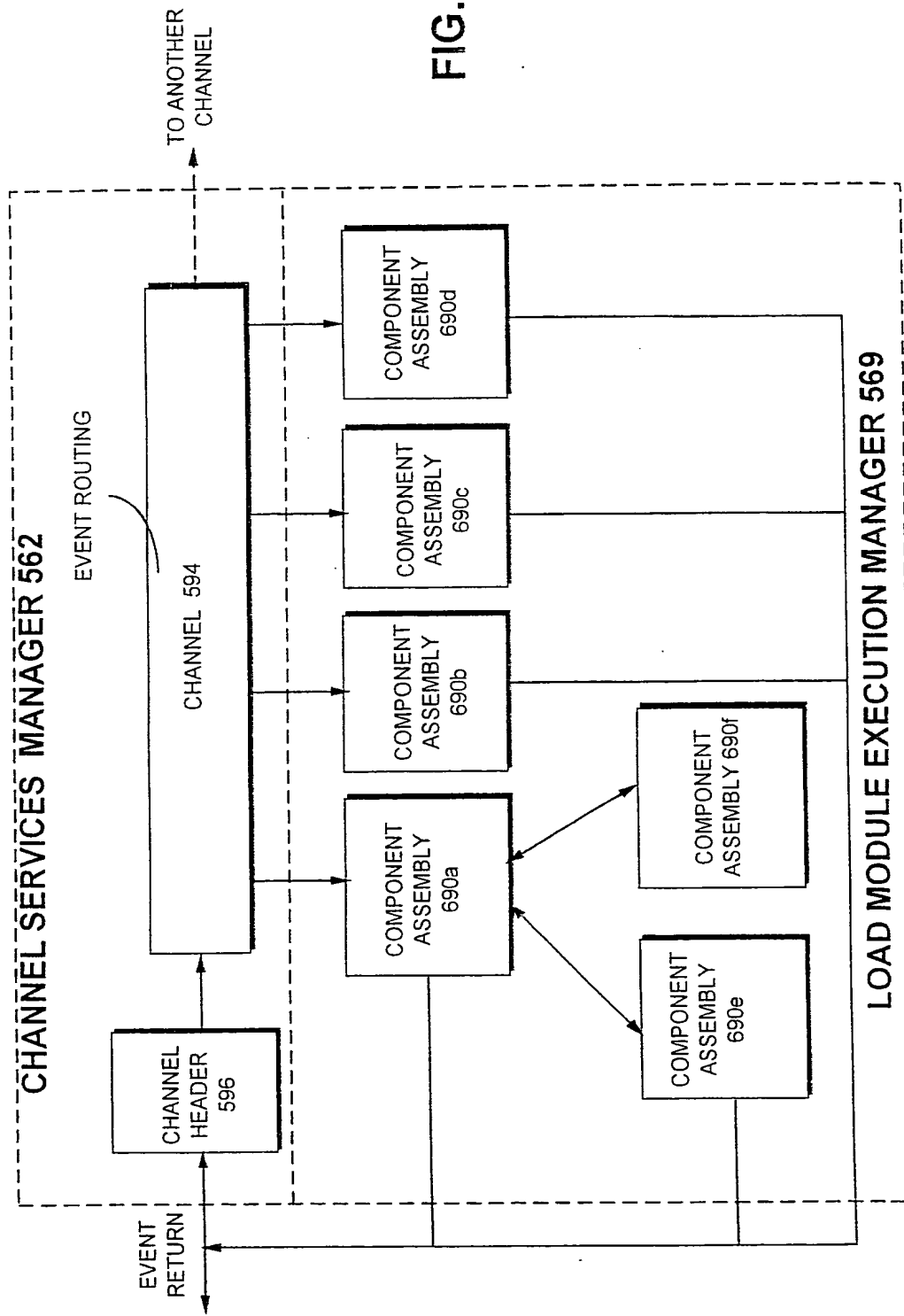


FIG. 15

FIG. 15A

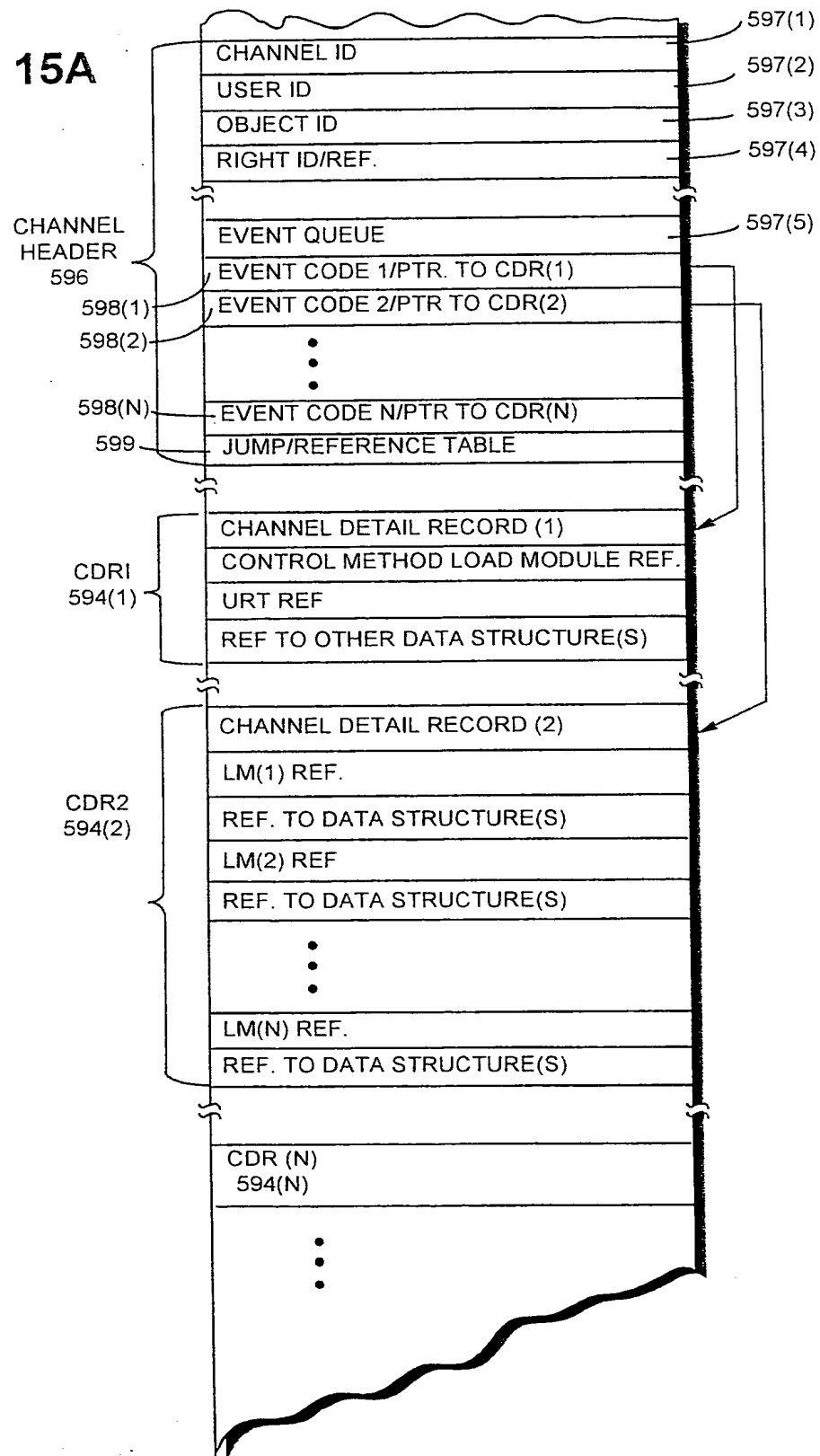


FIG. 15B

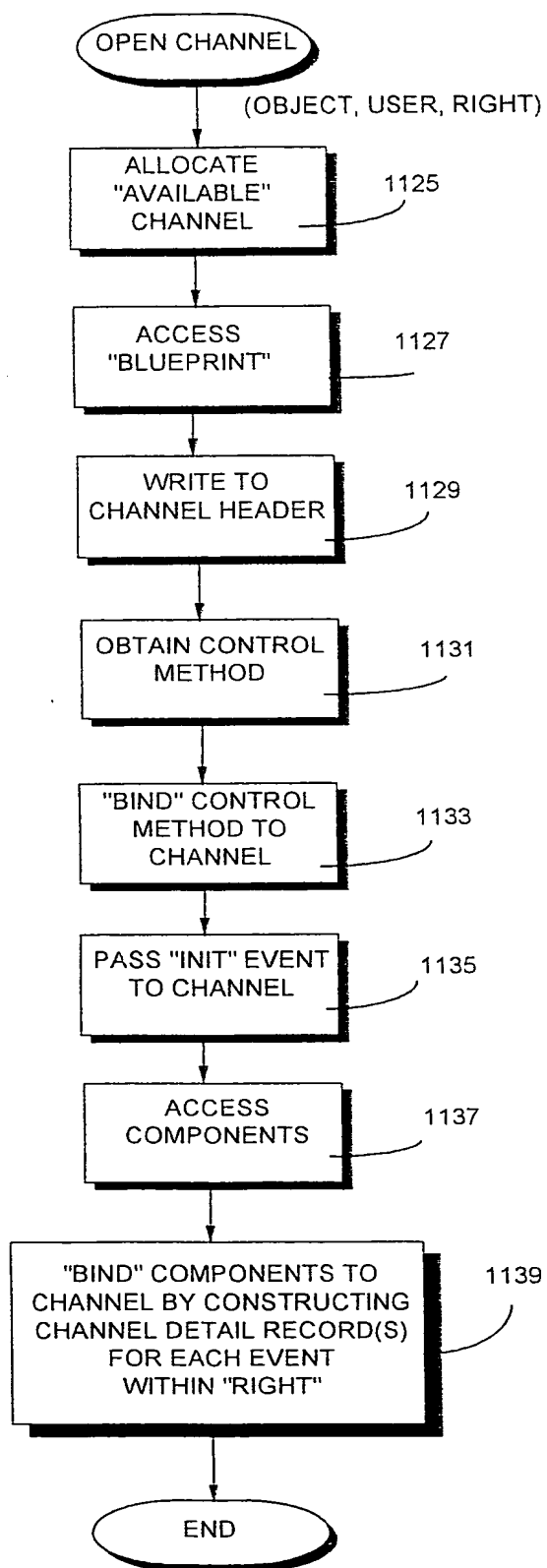
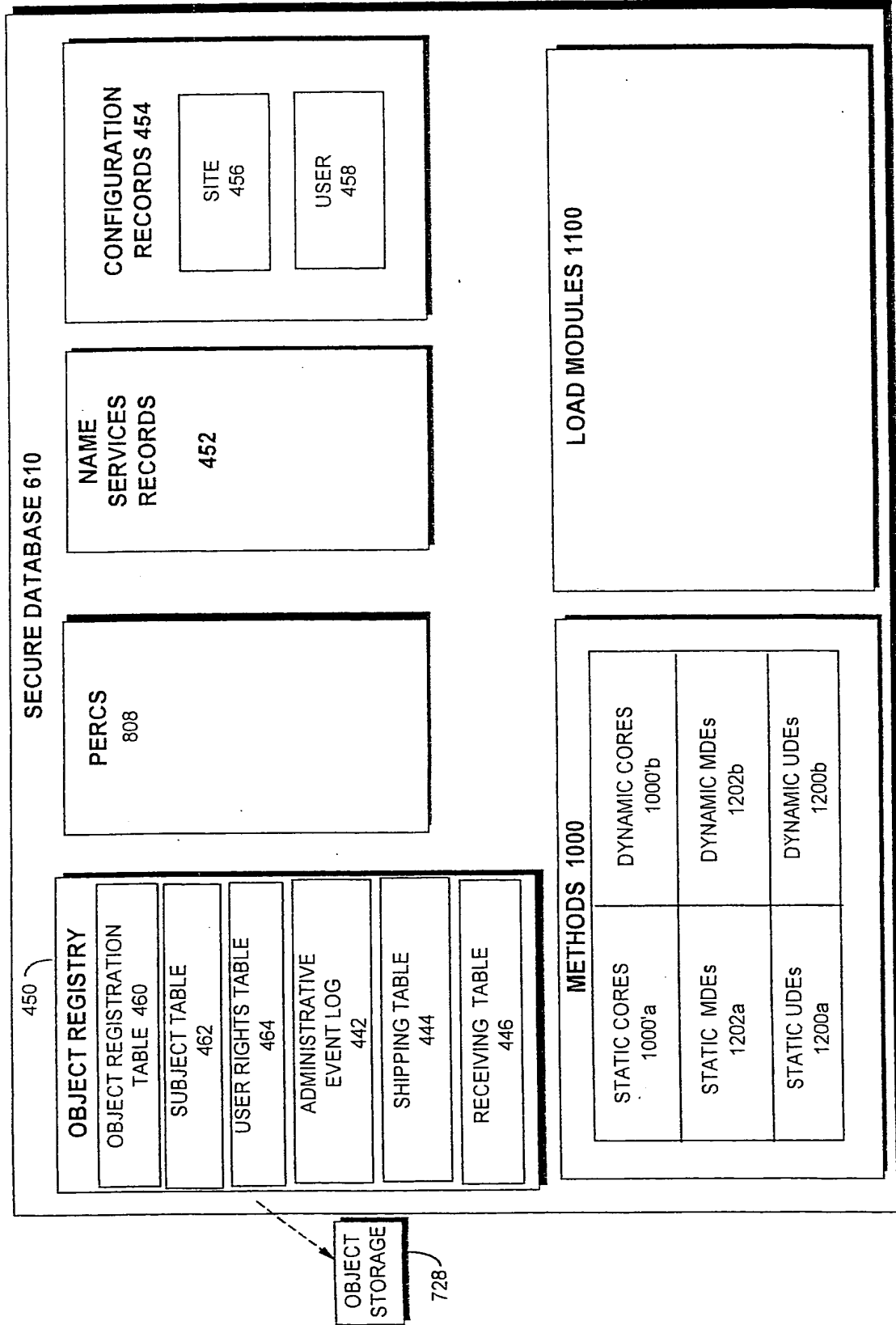


FIG. 16



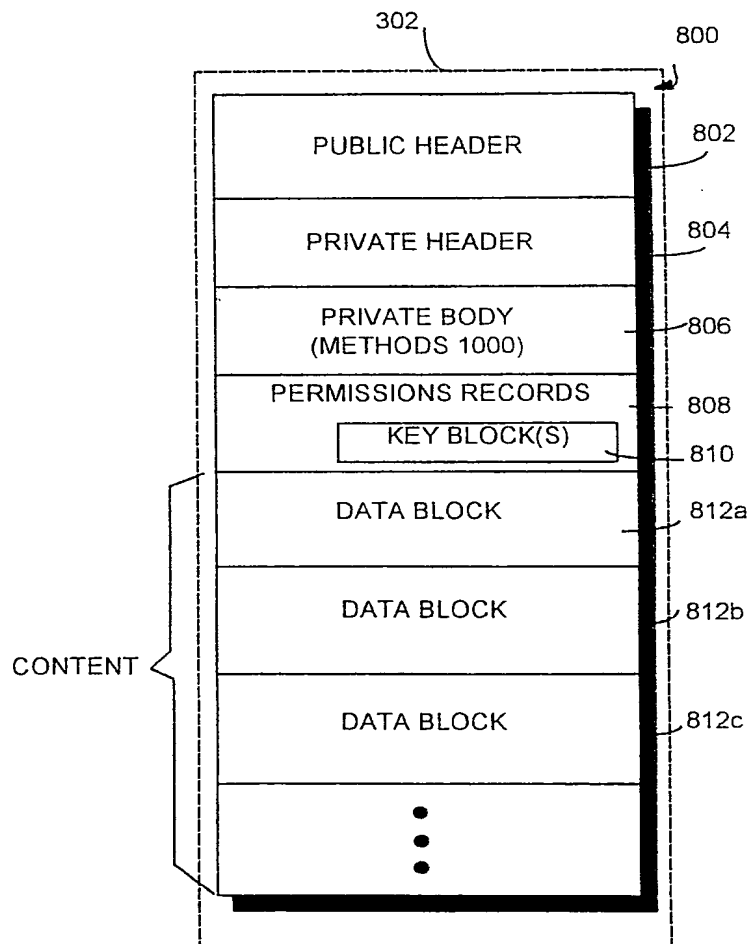


FIG. 17

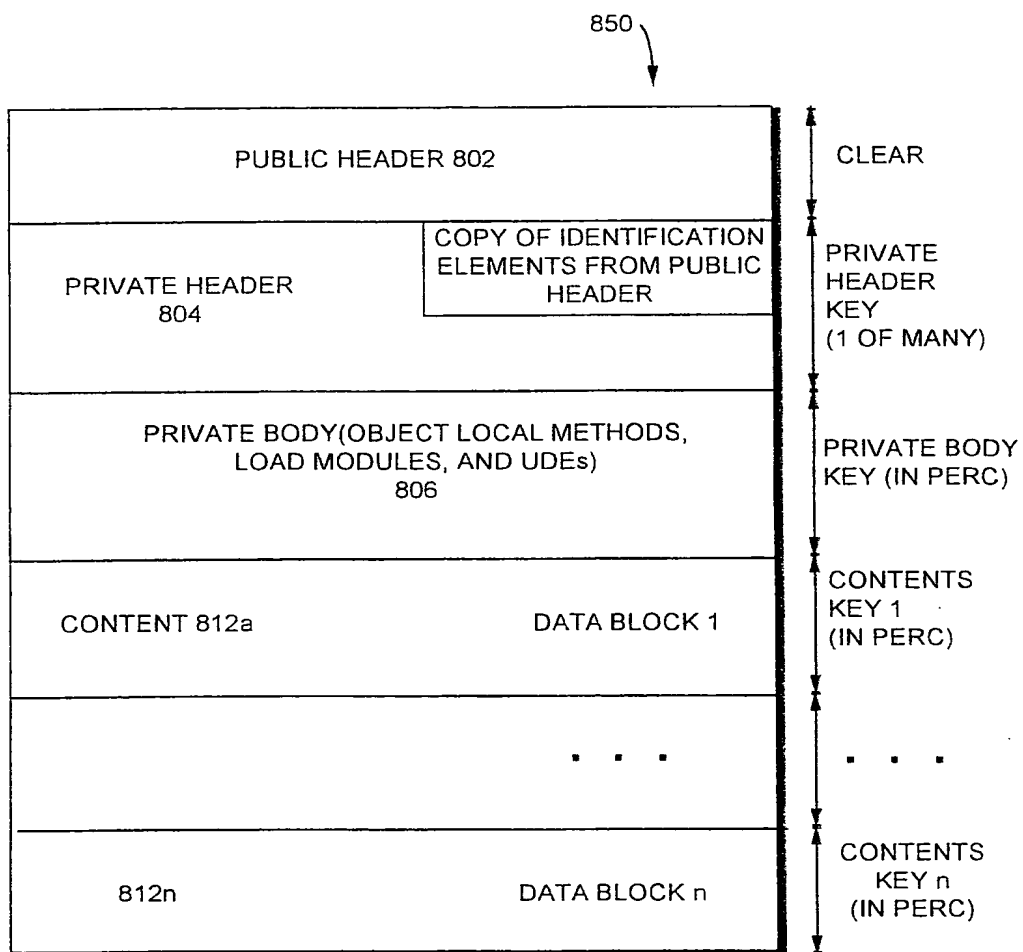


FIG. 18

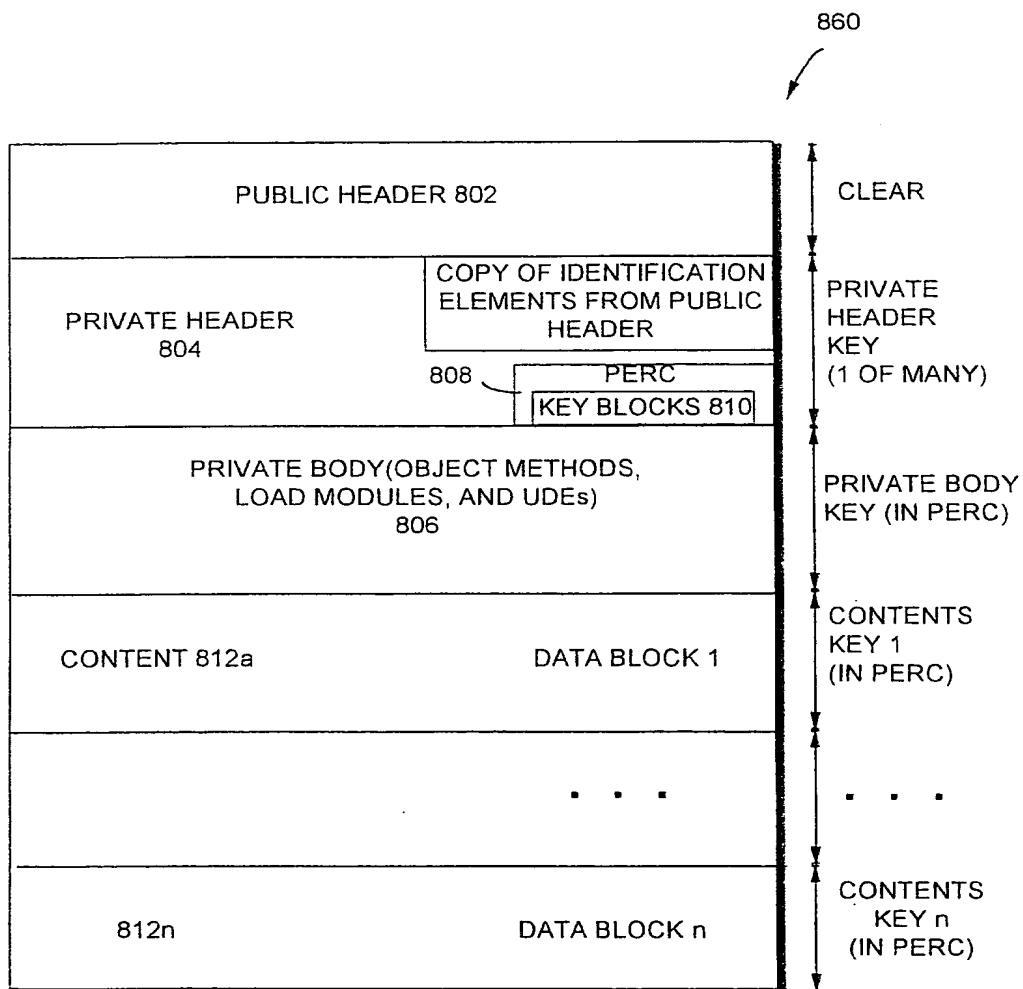


FIG. 19

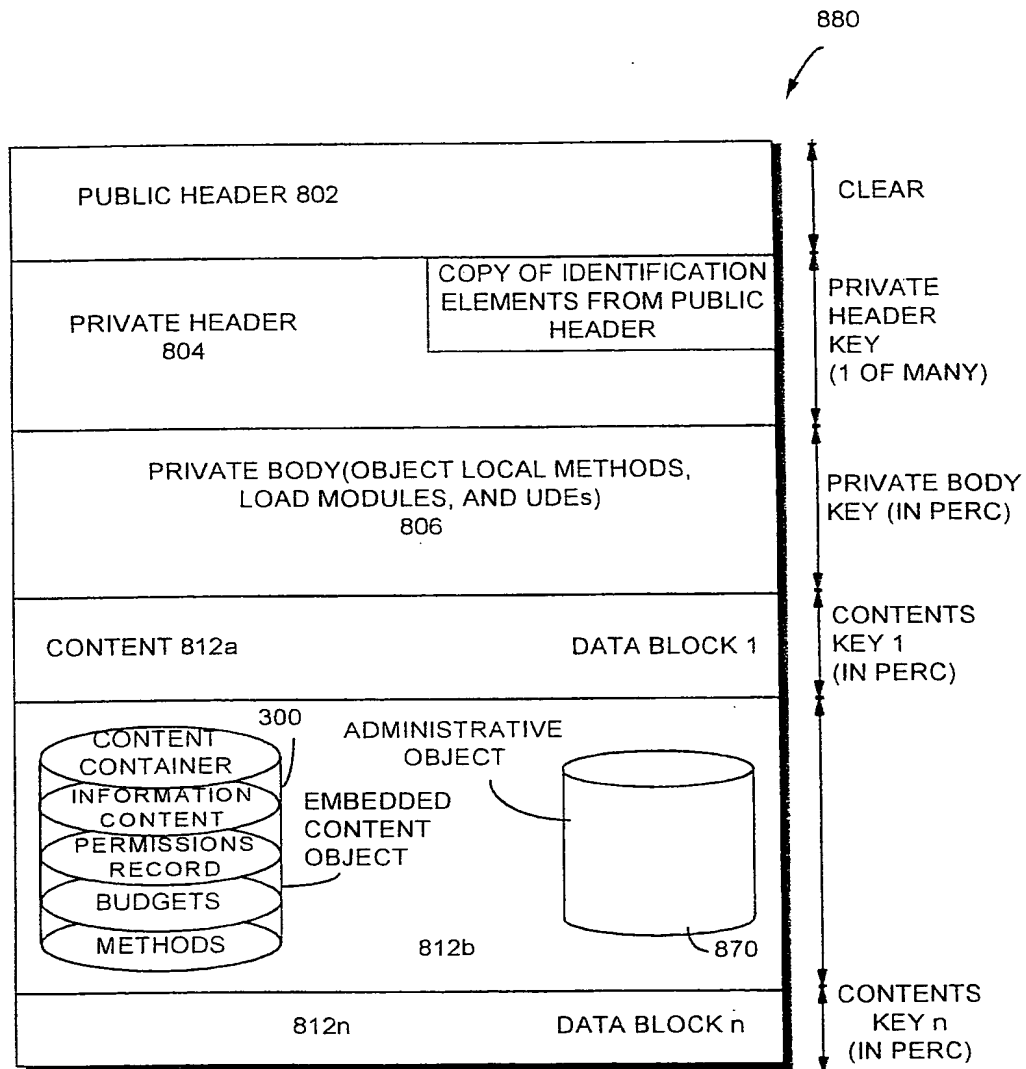


FIG. 20

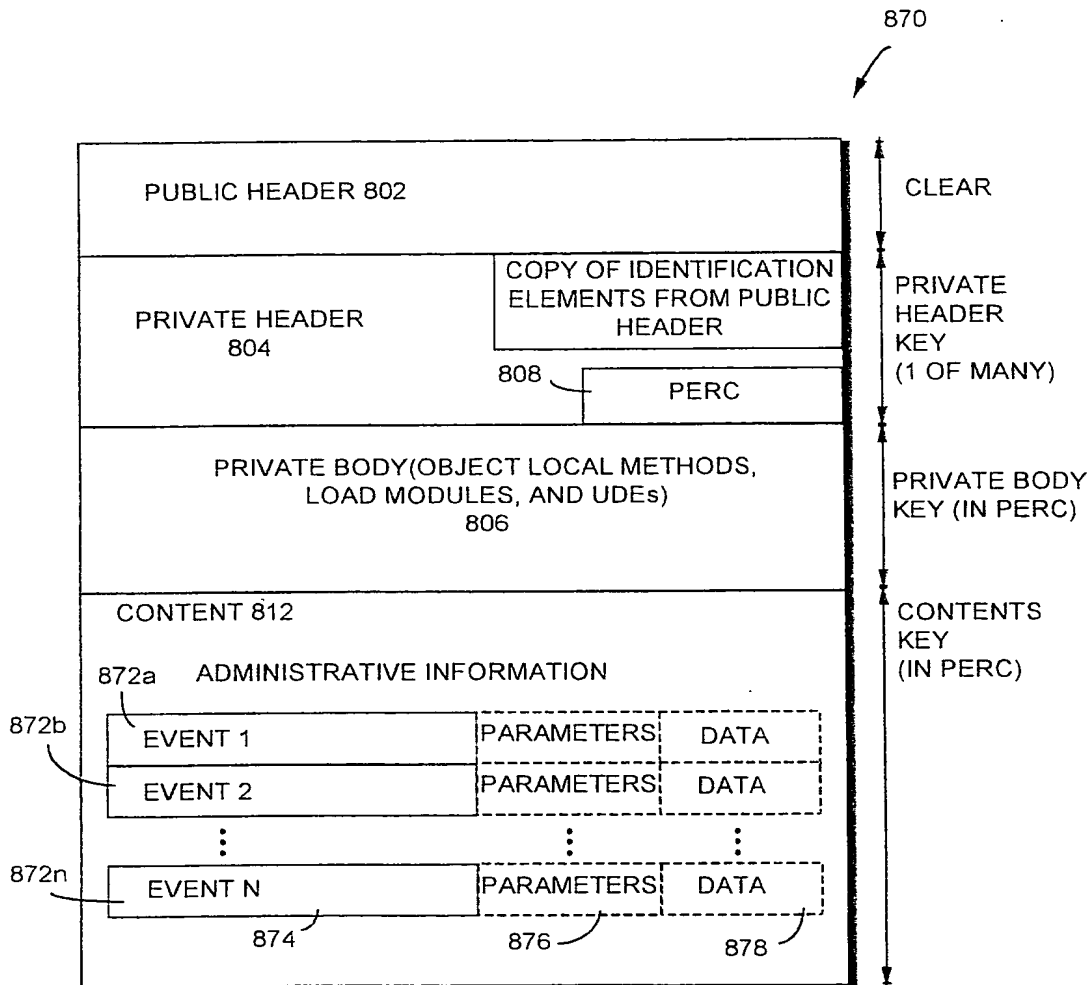


FIG. 21

FIG. 22

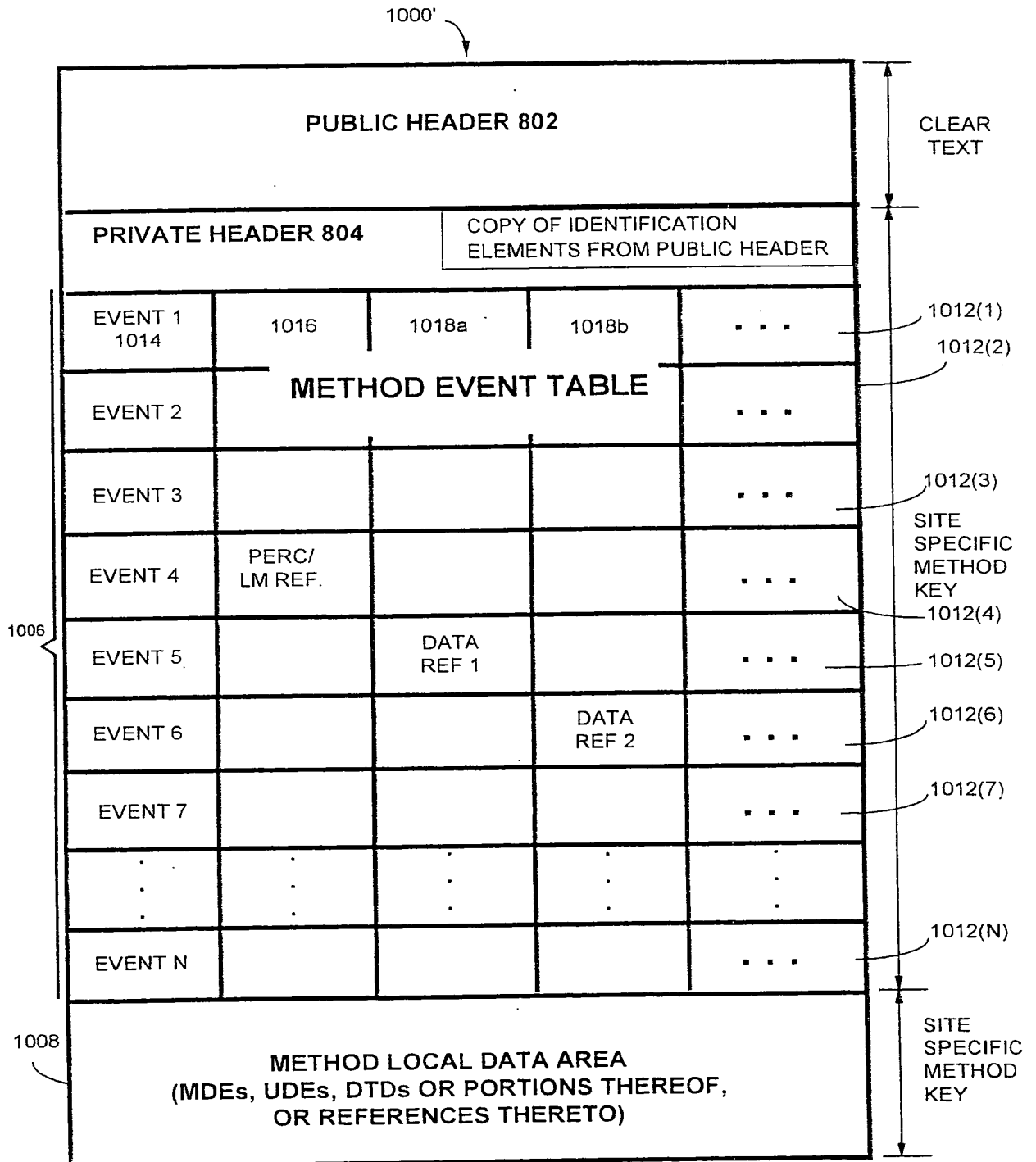


FIG. 23

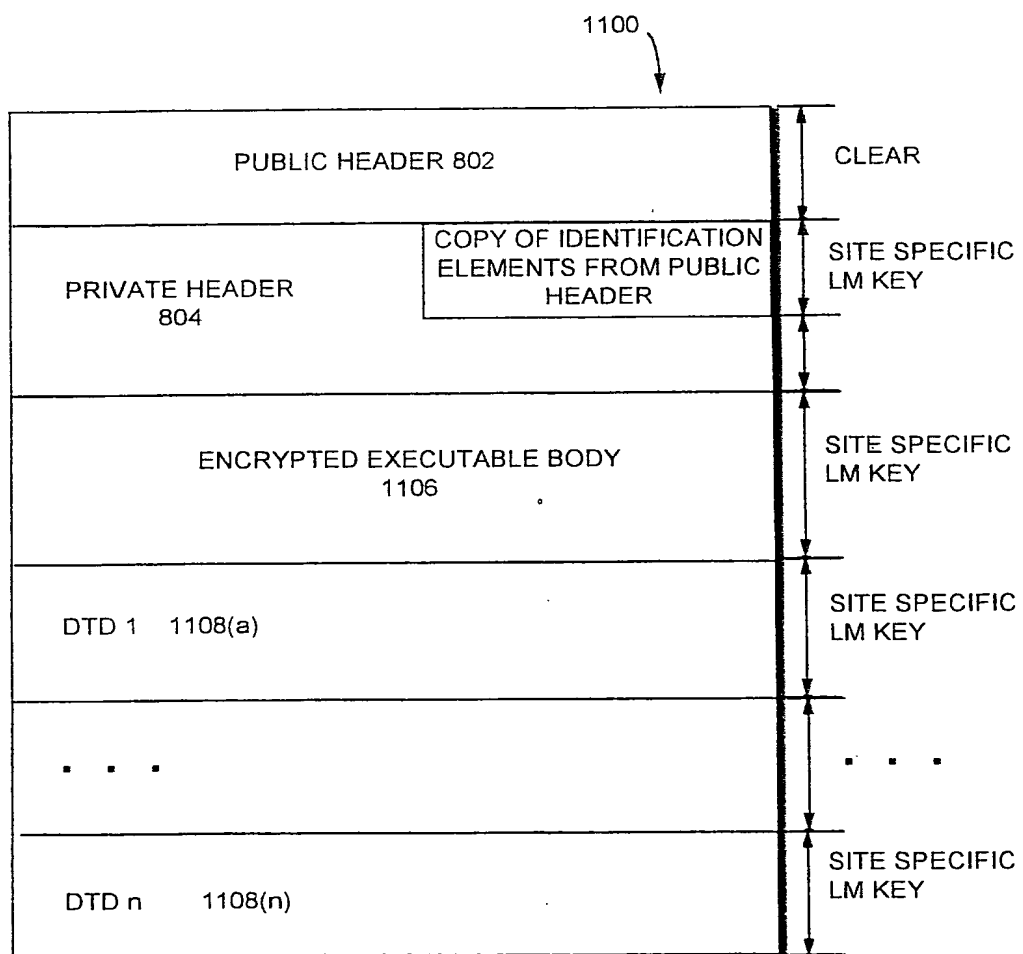


FIG. 24

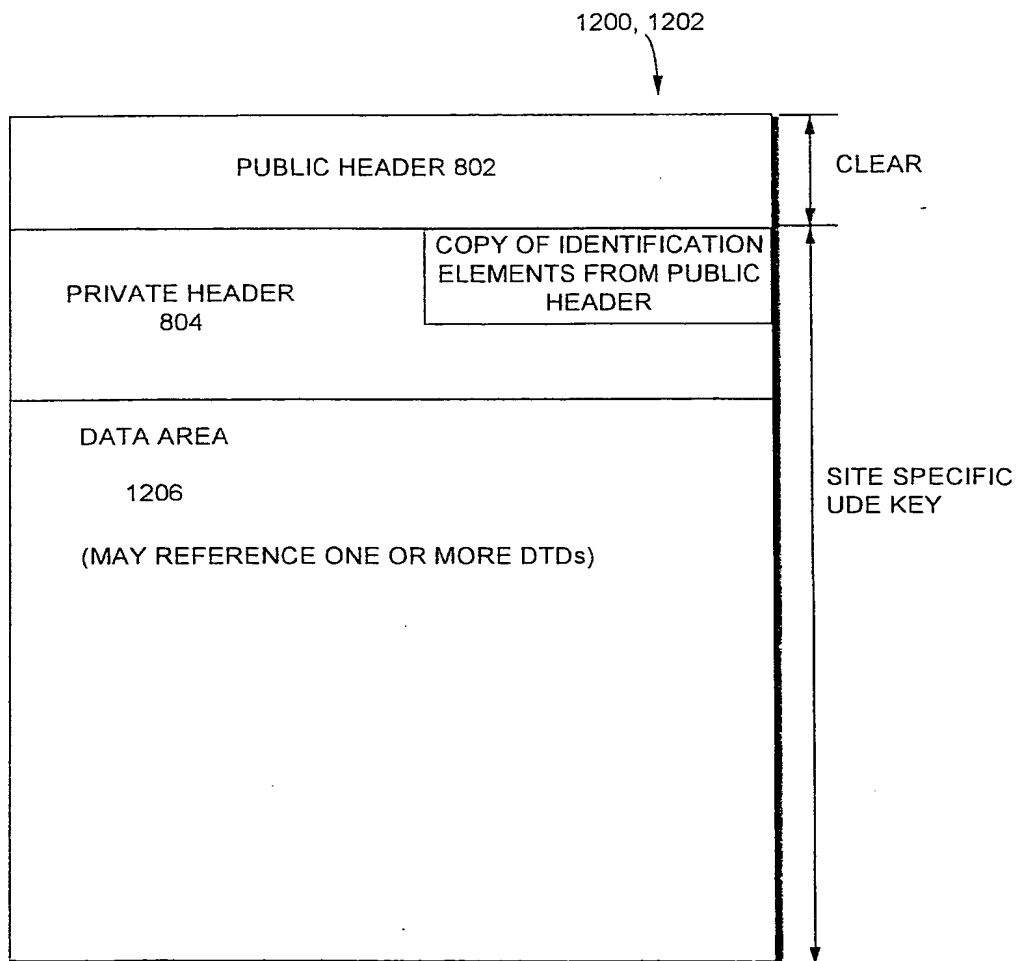


FIG. 25A

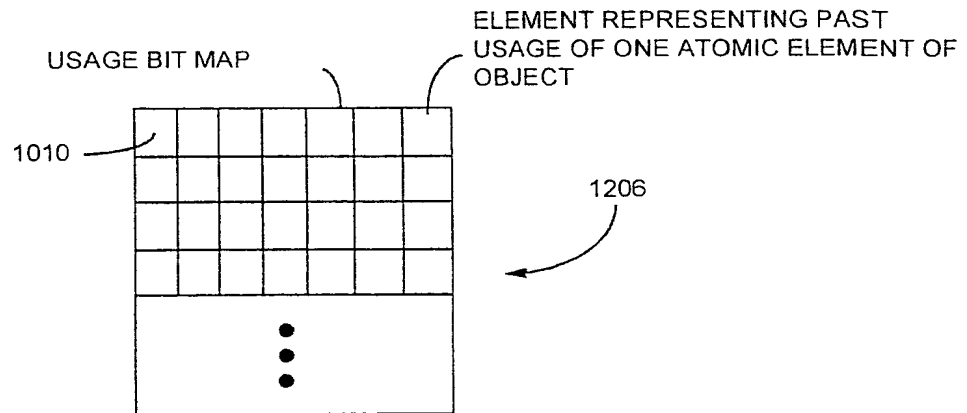


FIG. 25B

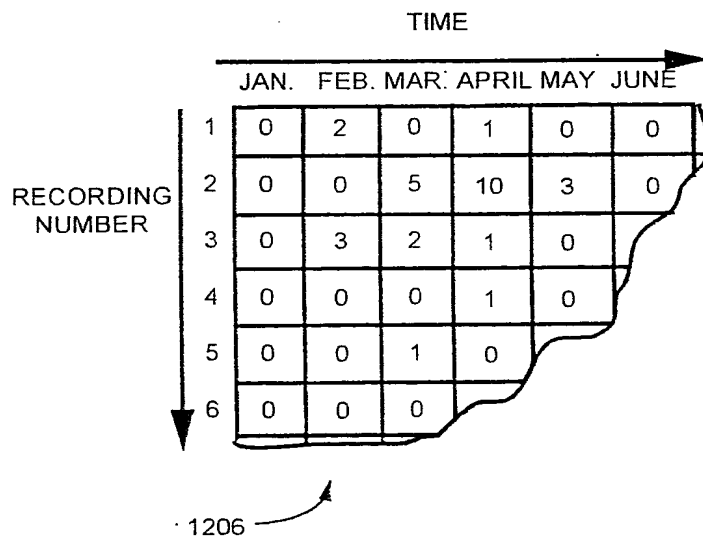


FIG. 25C

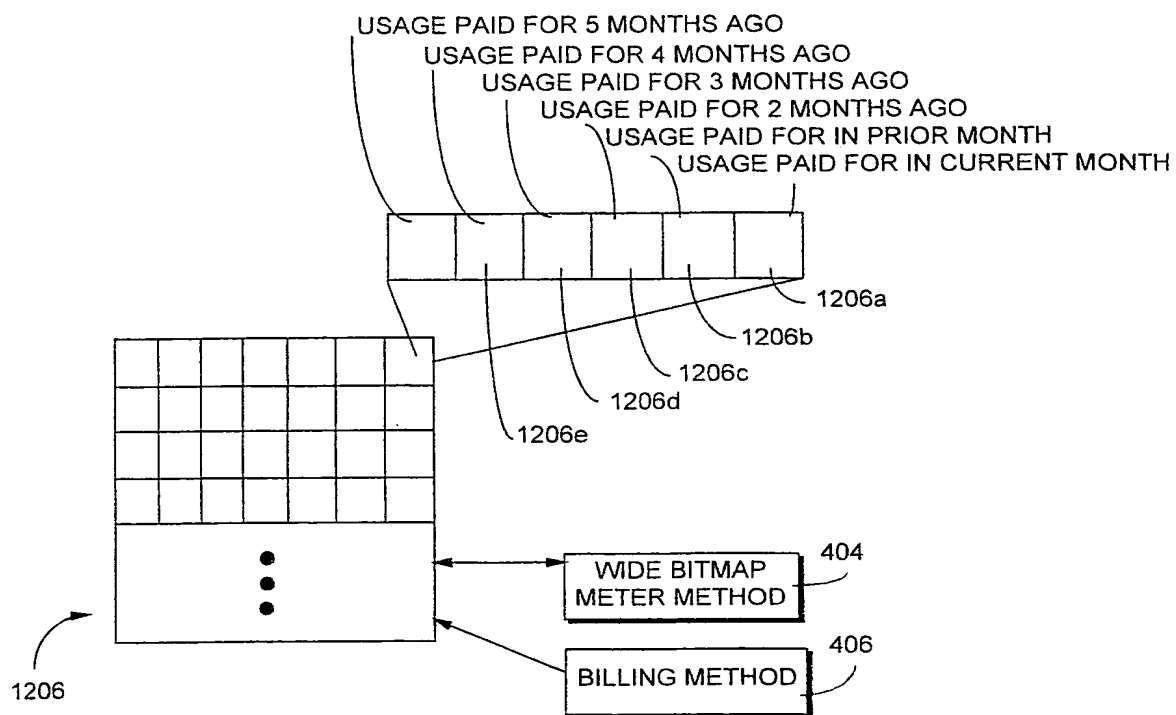


FIG. 26

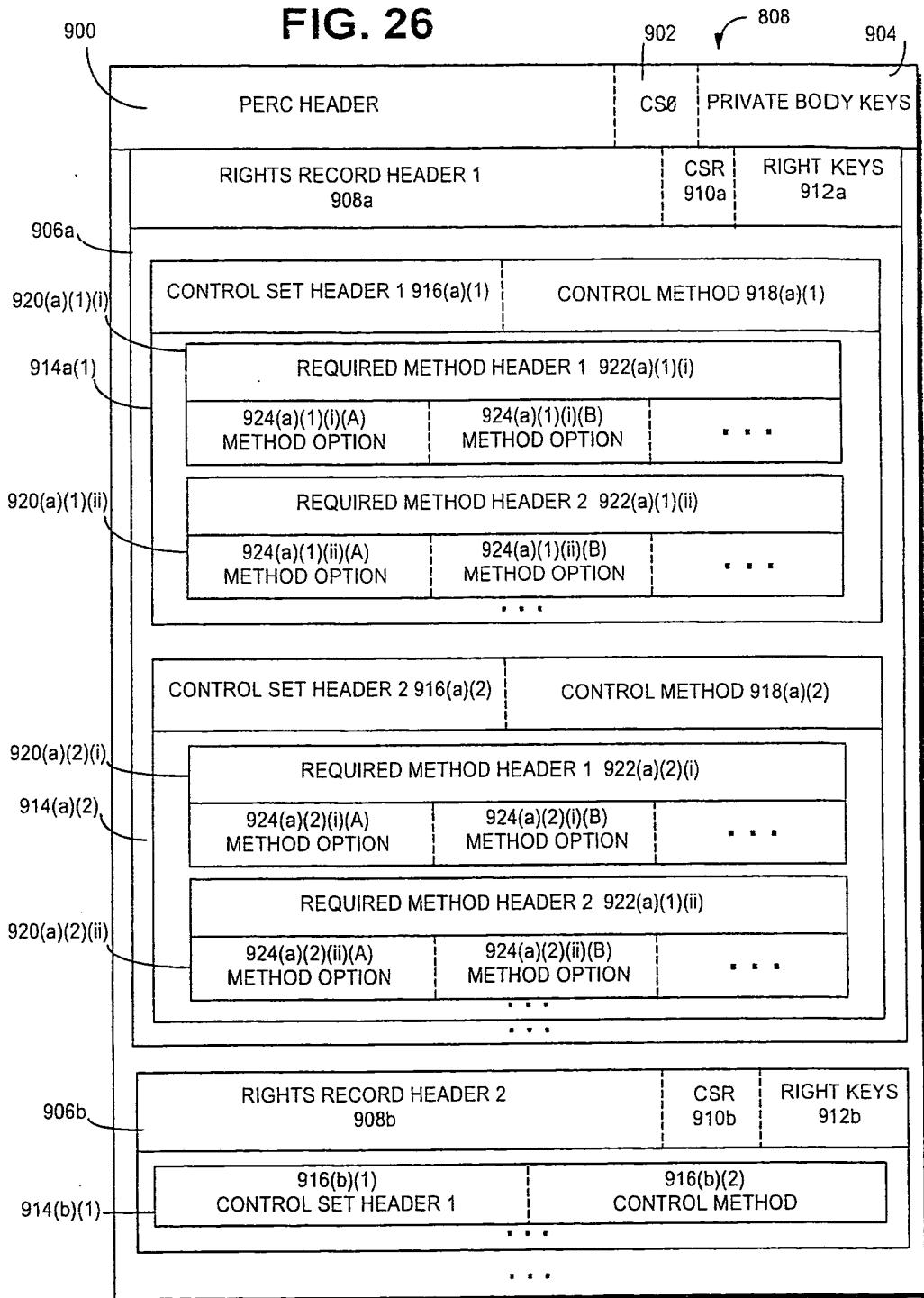


FIG. 26A

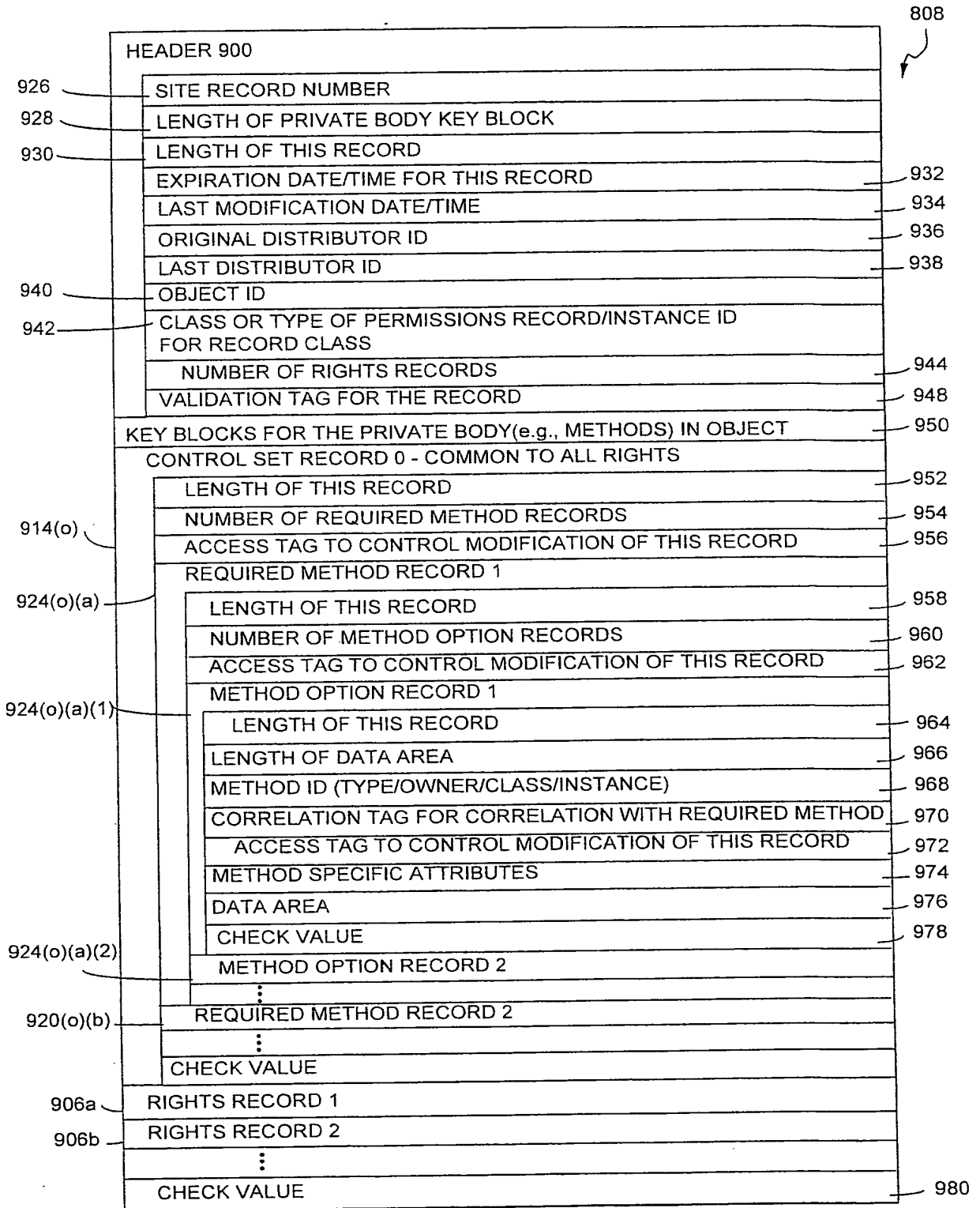


FIG. 26B

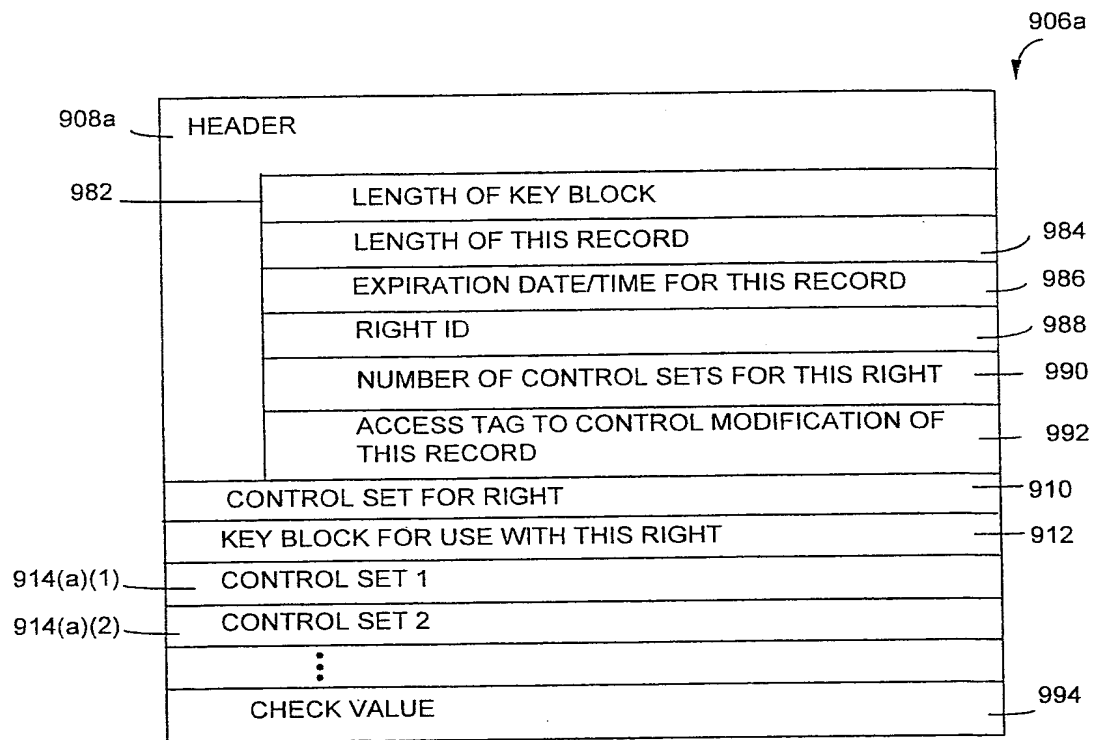


FIG. 27

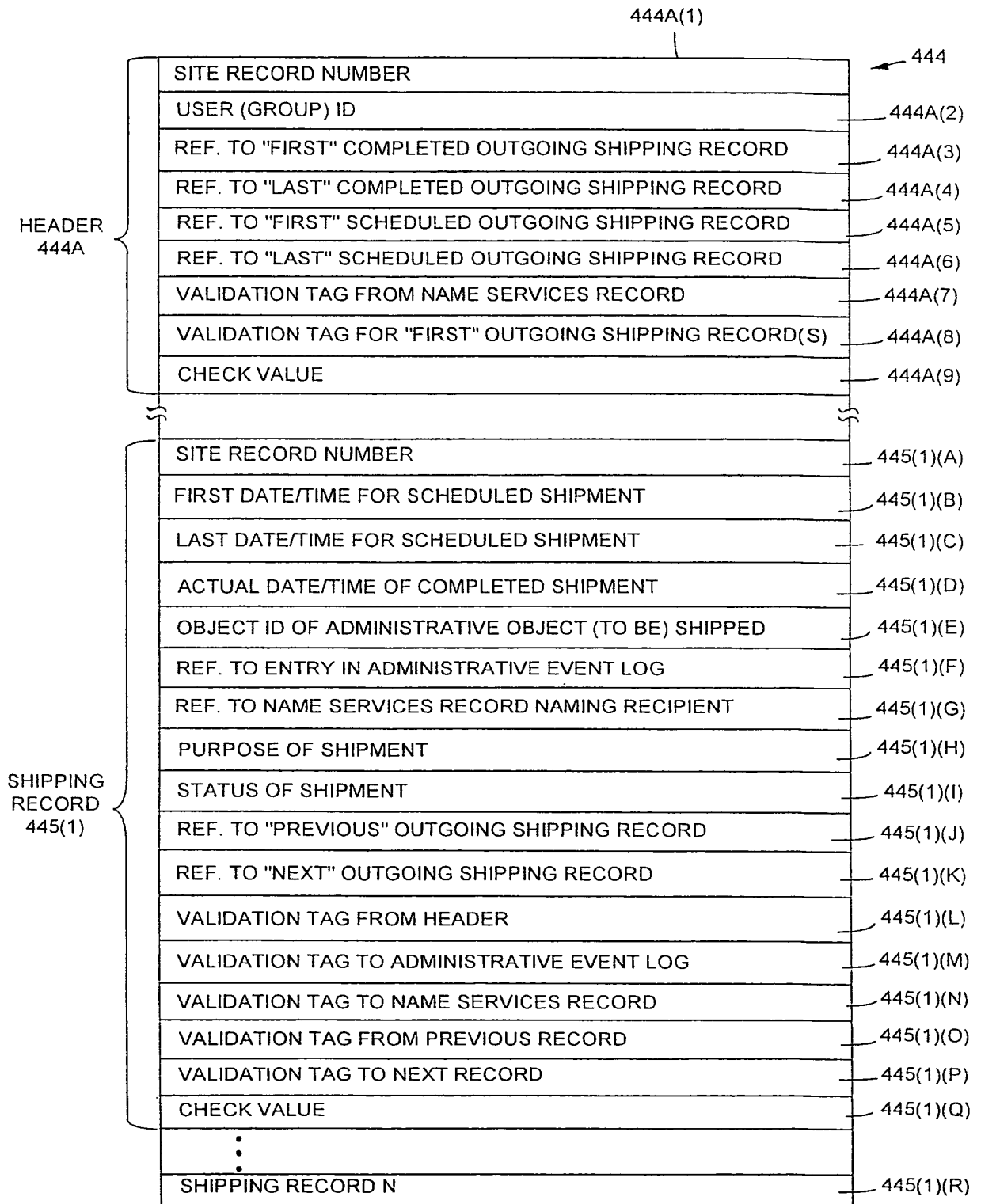


FIG. 28

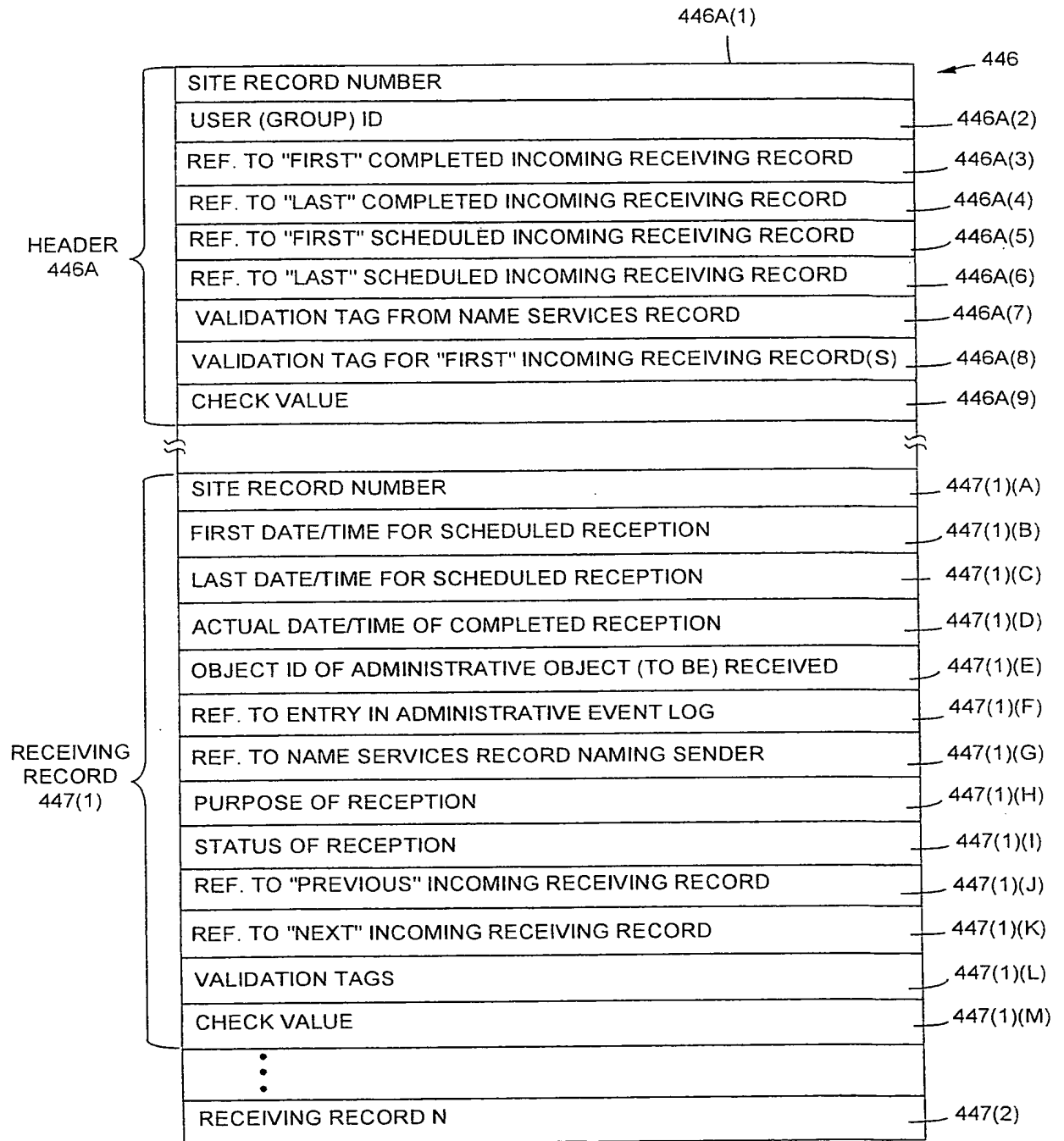


FIG. 29

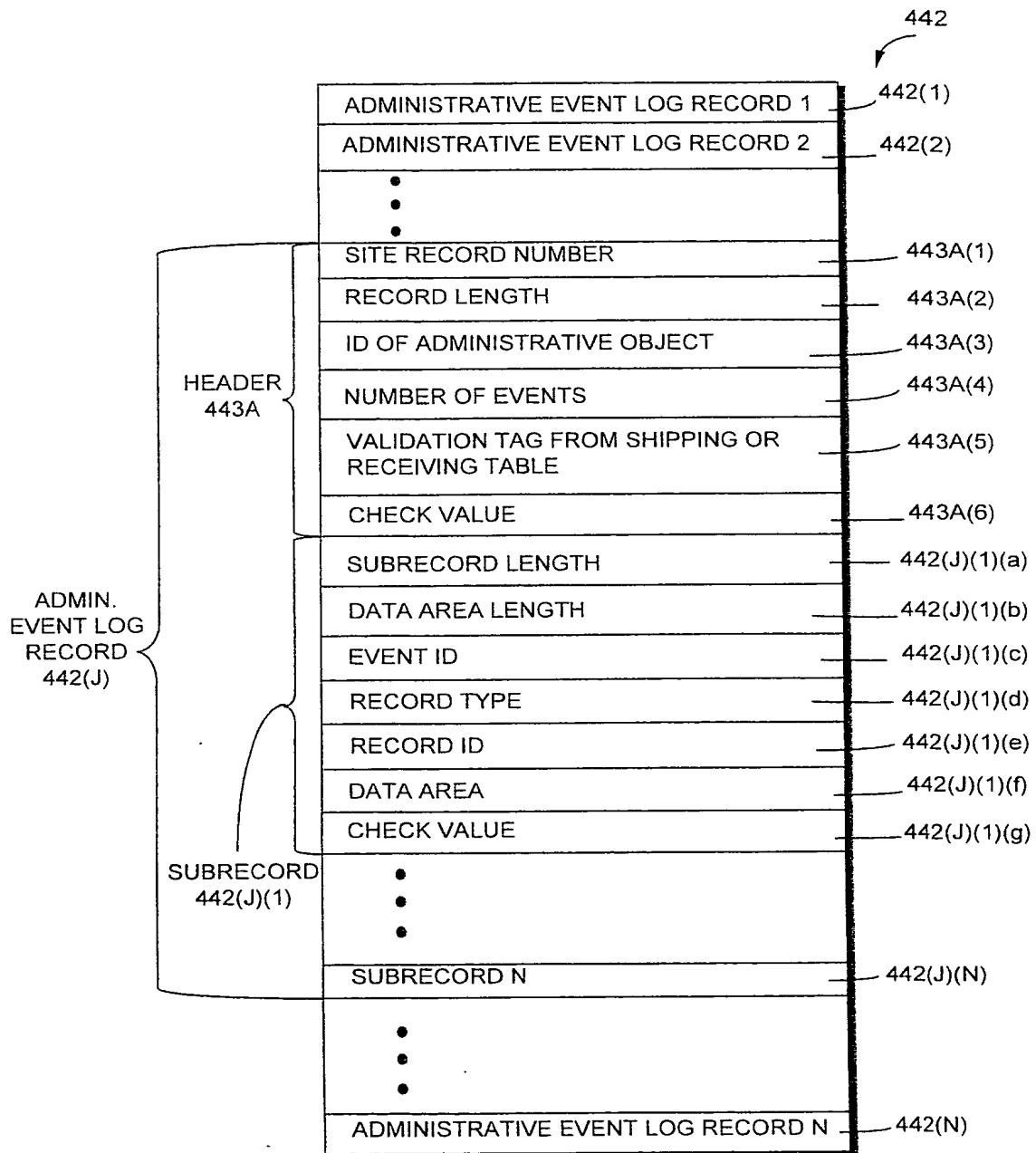
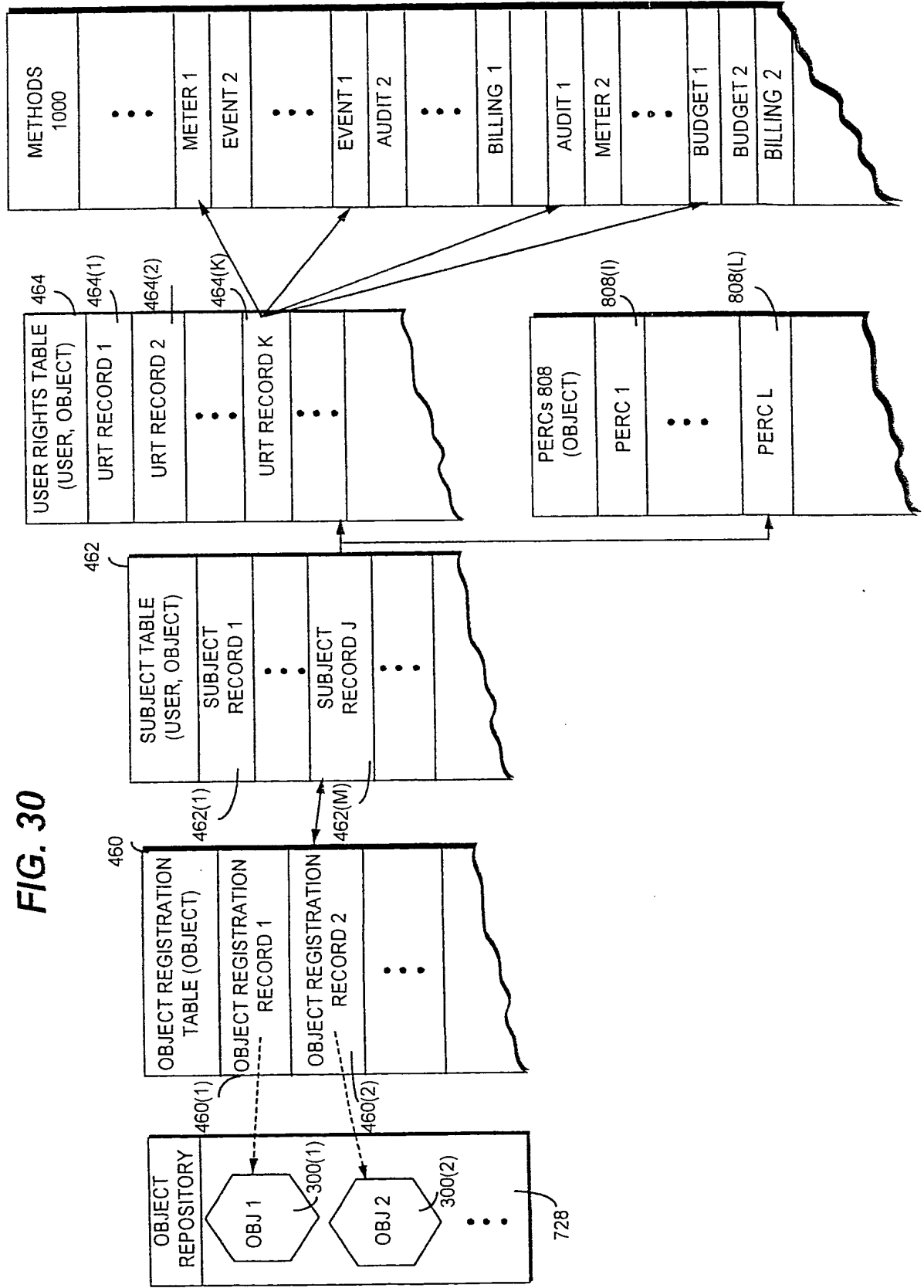


FIG. 30



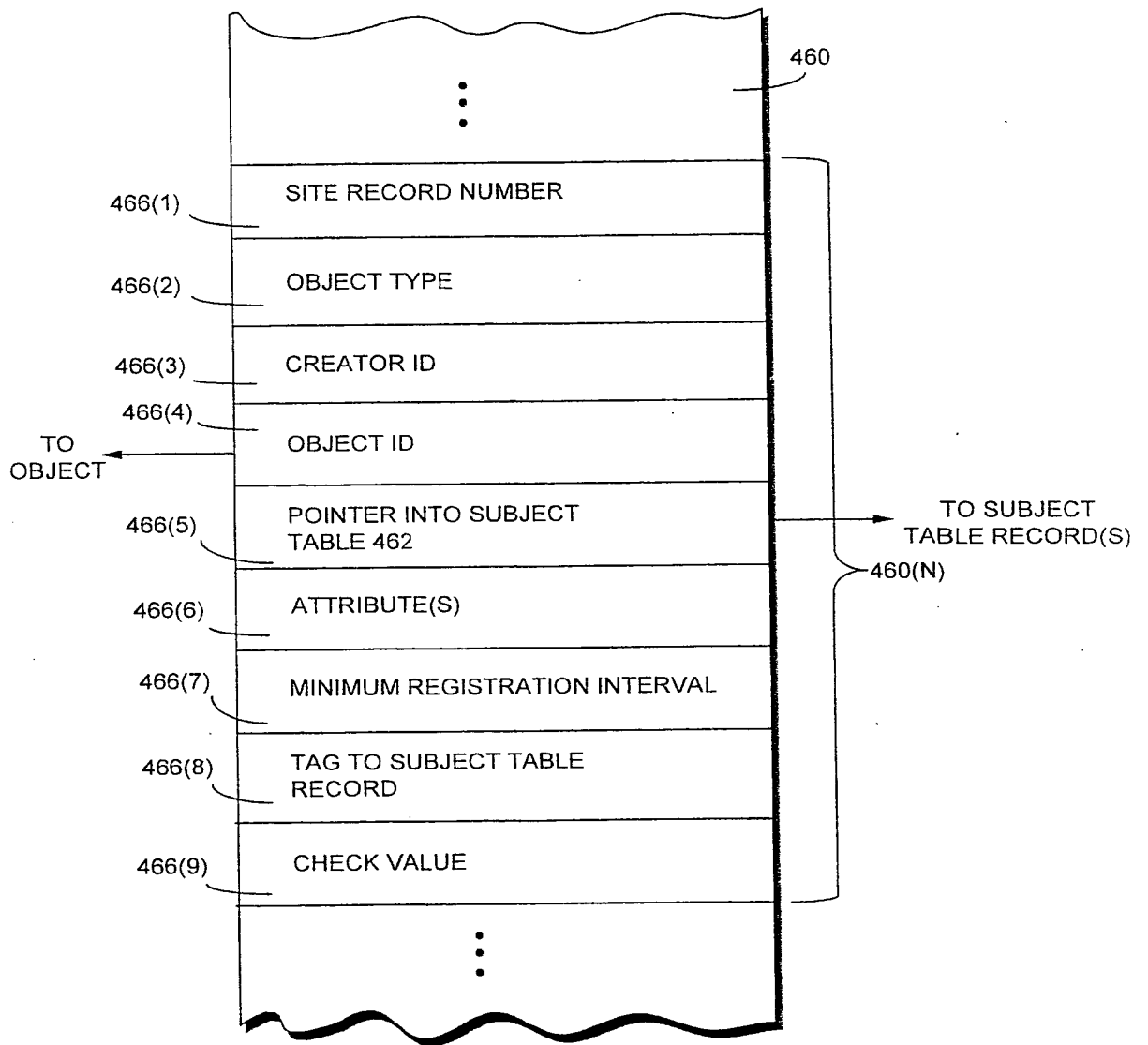


FIG. 31

FIG. 32

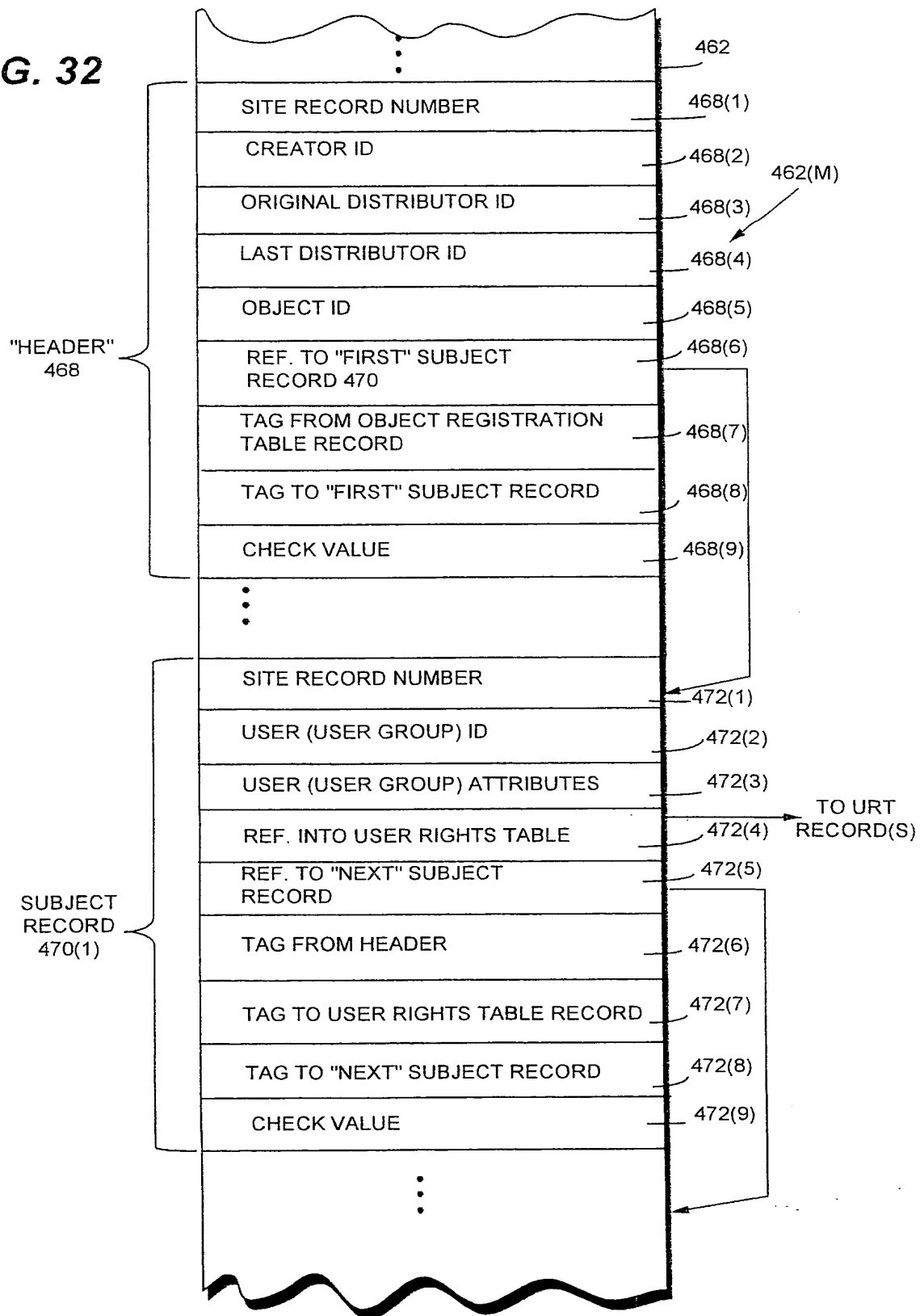


FIG. 33

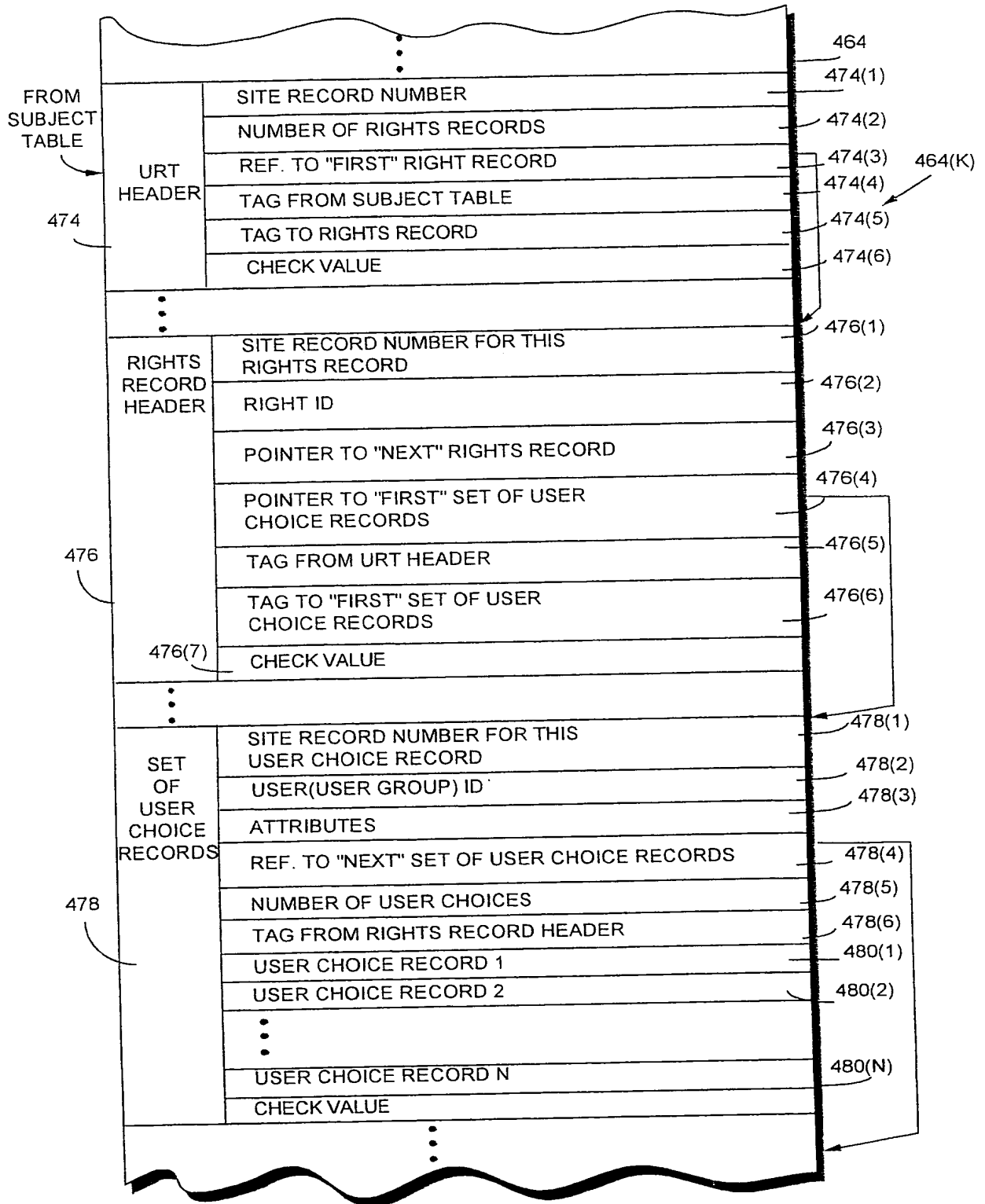


FIG. 34

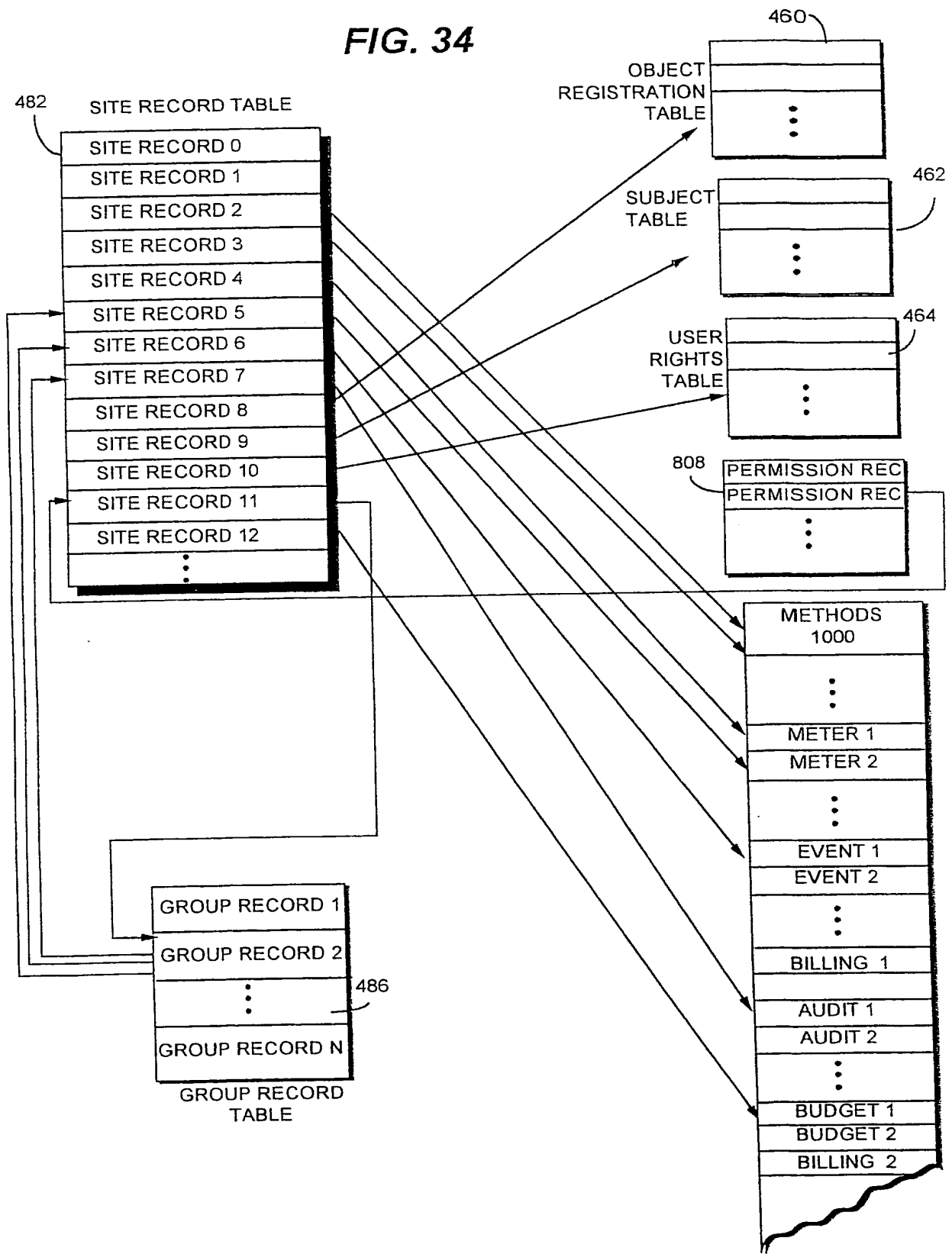


FIG. 34A

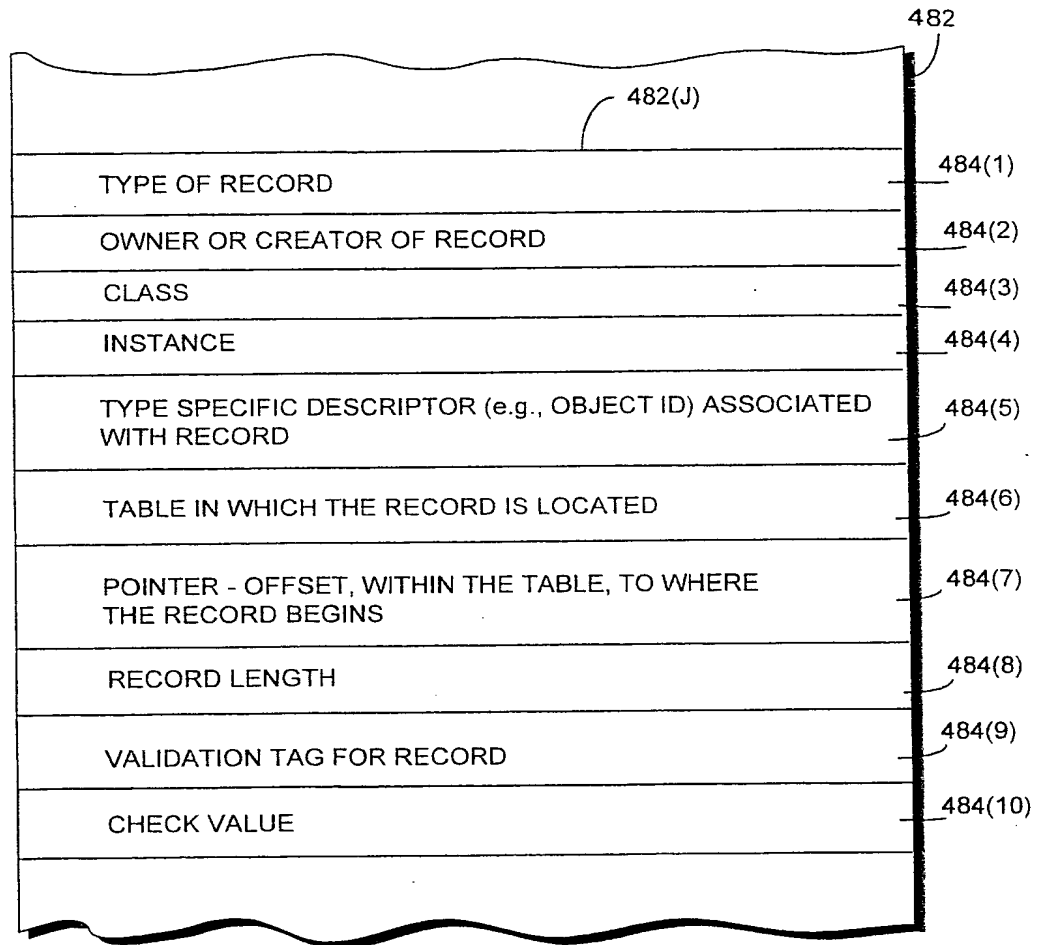


FIG. 34B

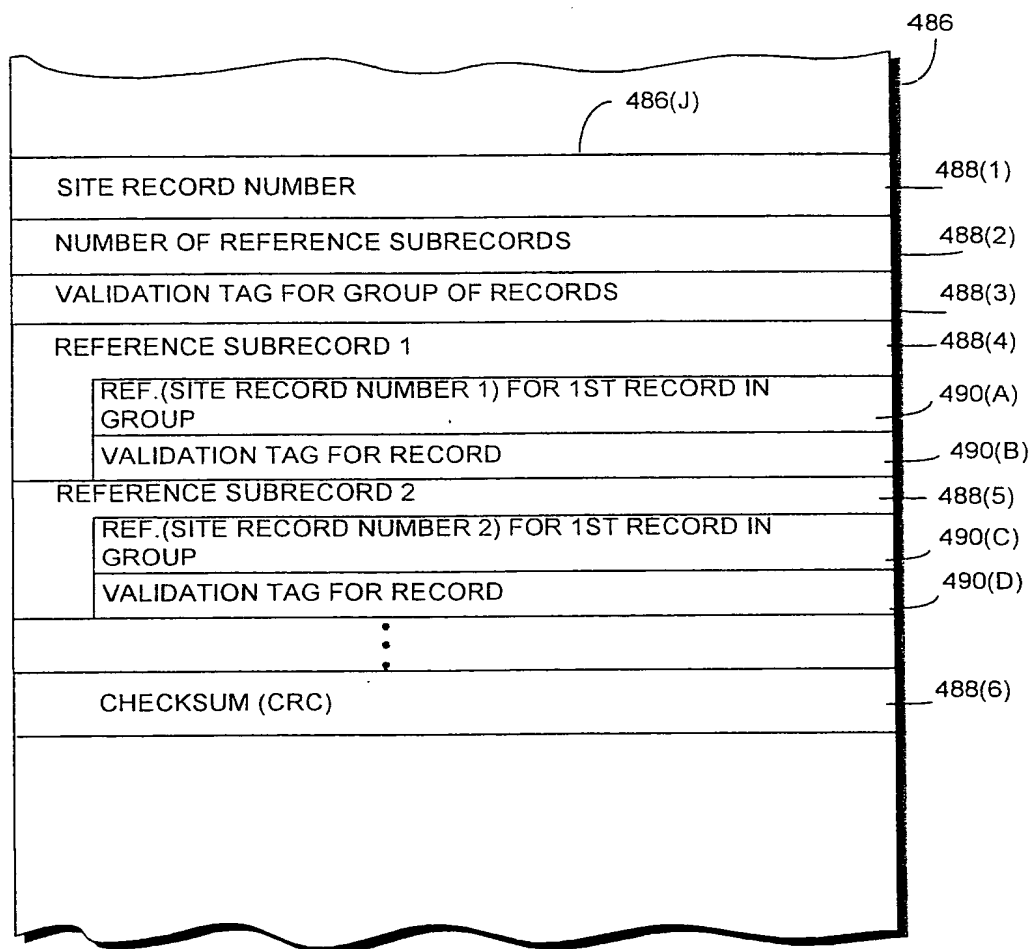


FIG. 35

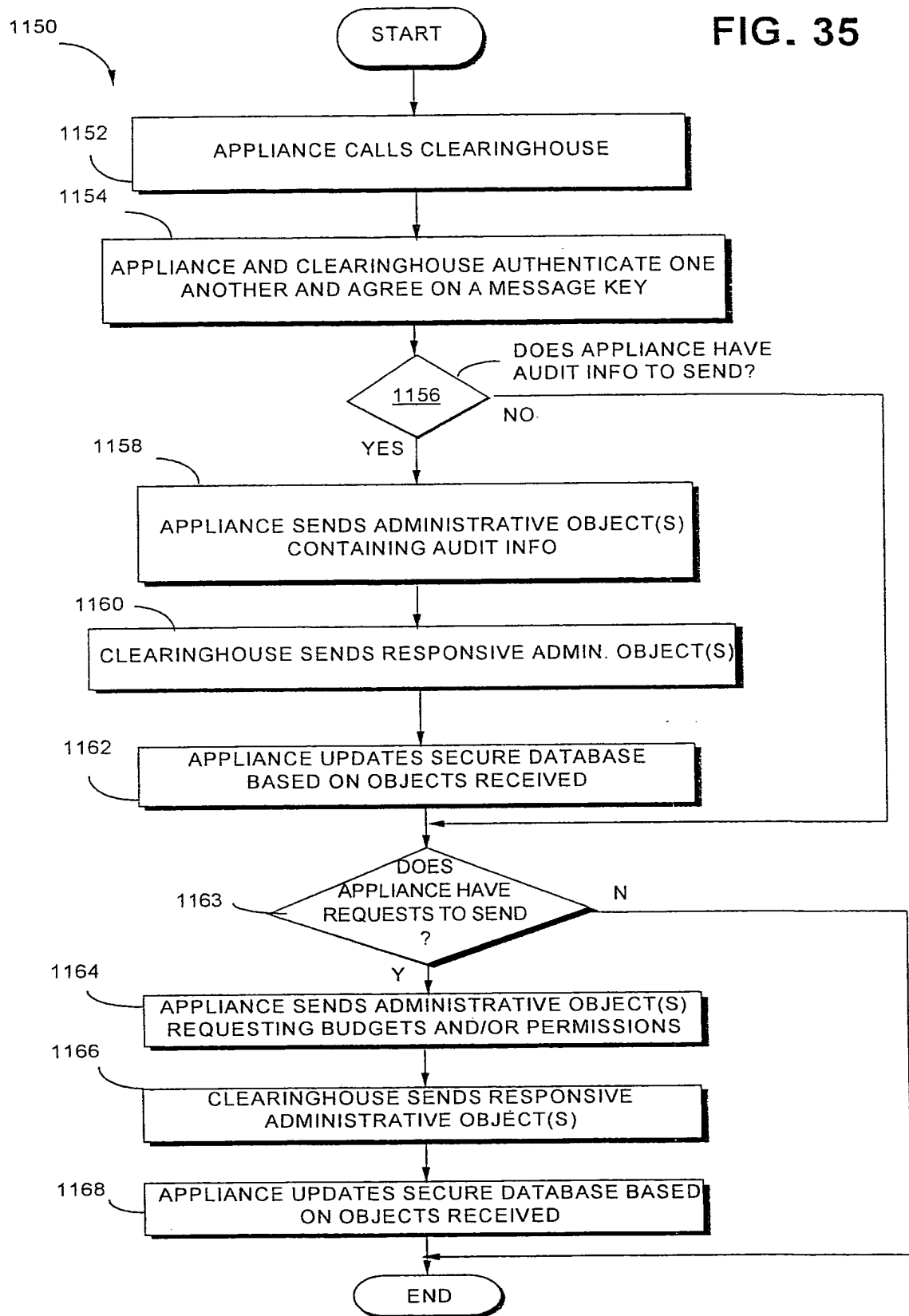


FIG. 36

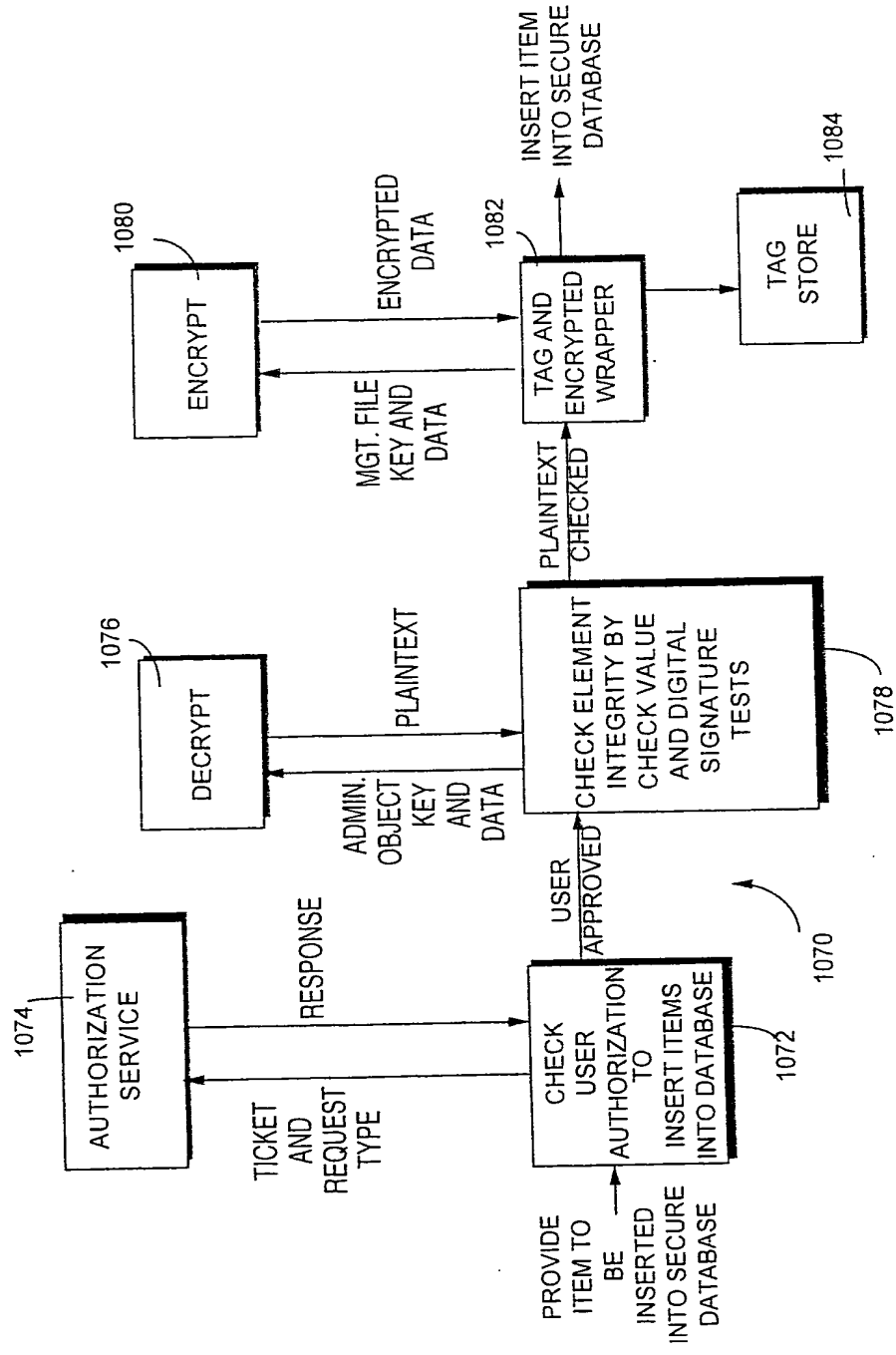


FIG. 37

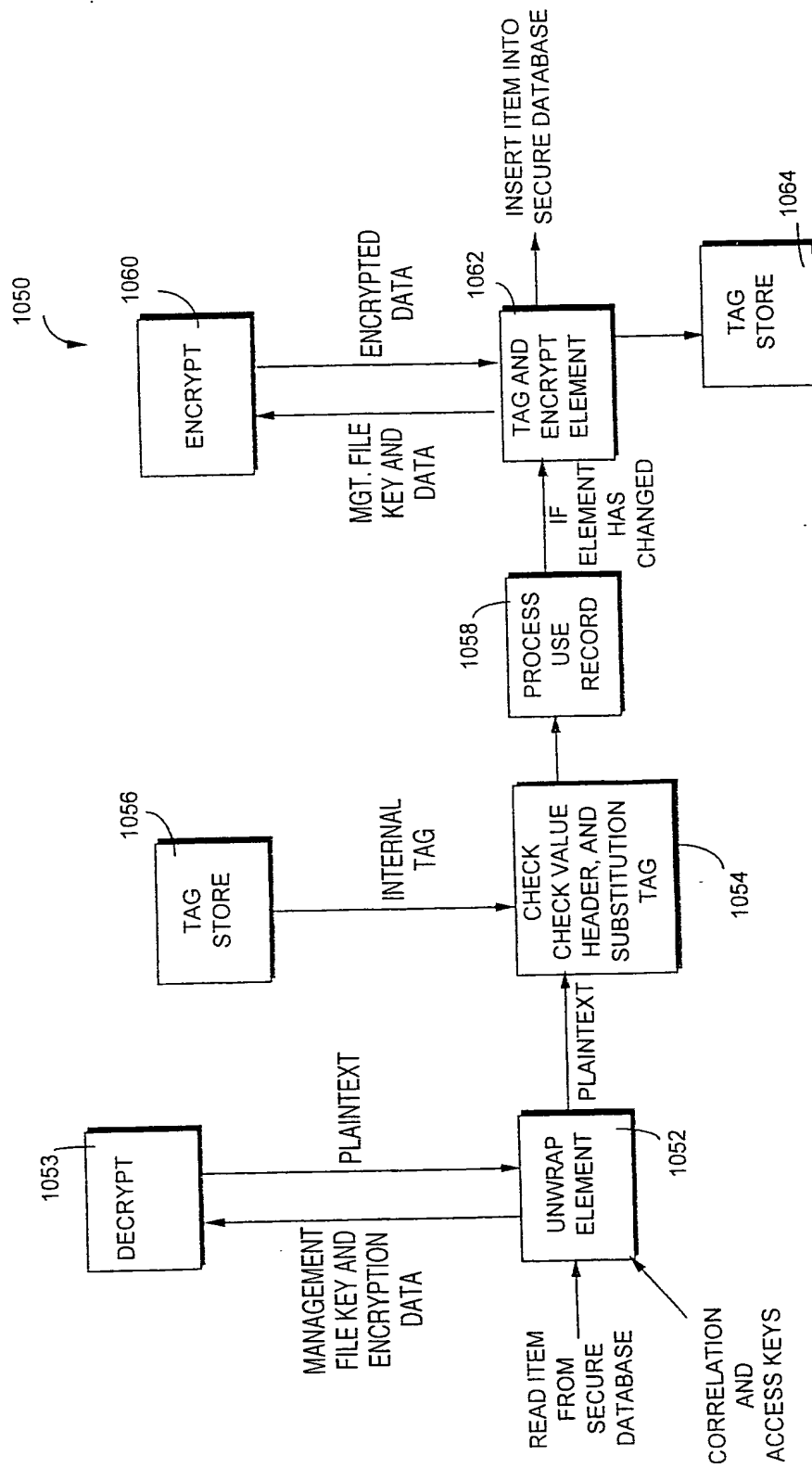


FIG. 38

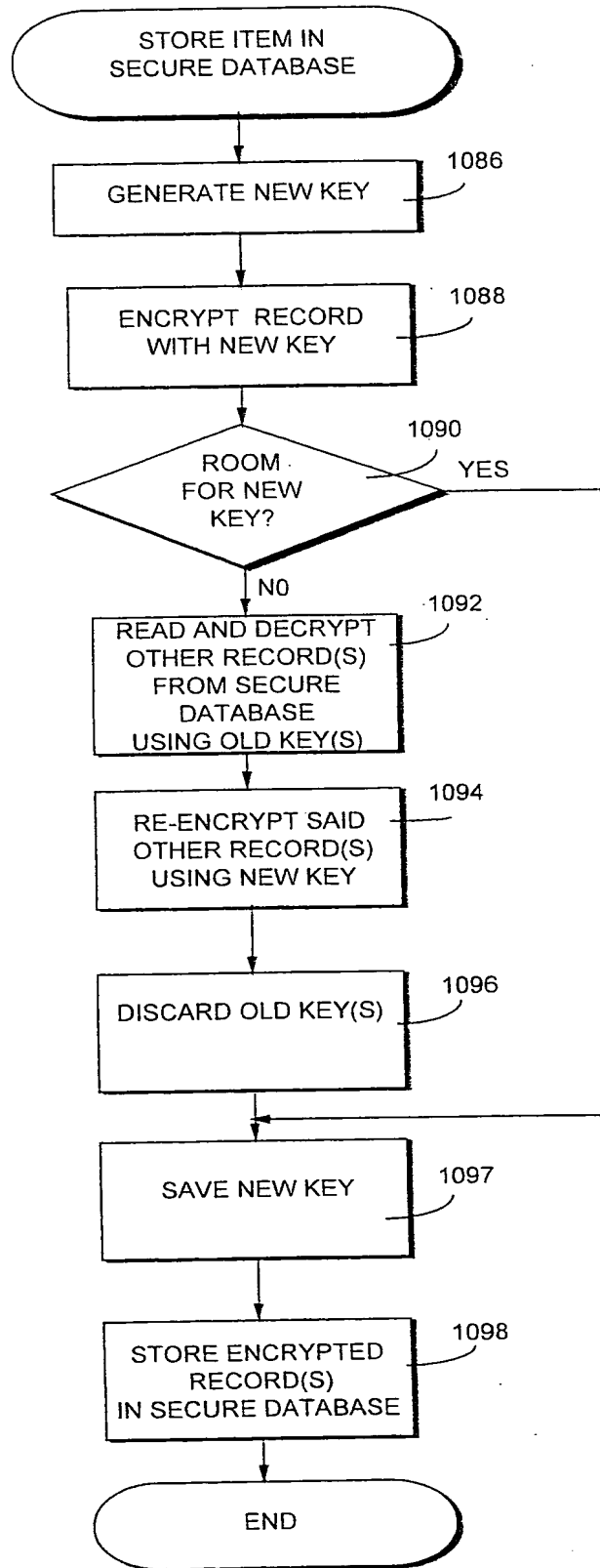


FIG. 39

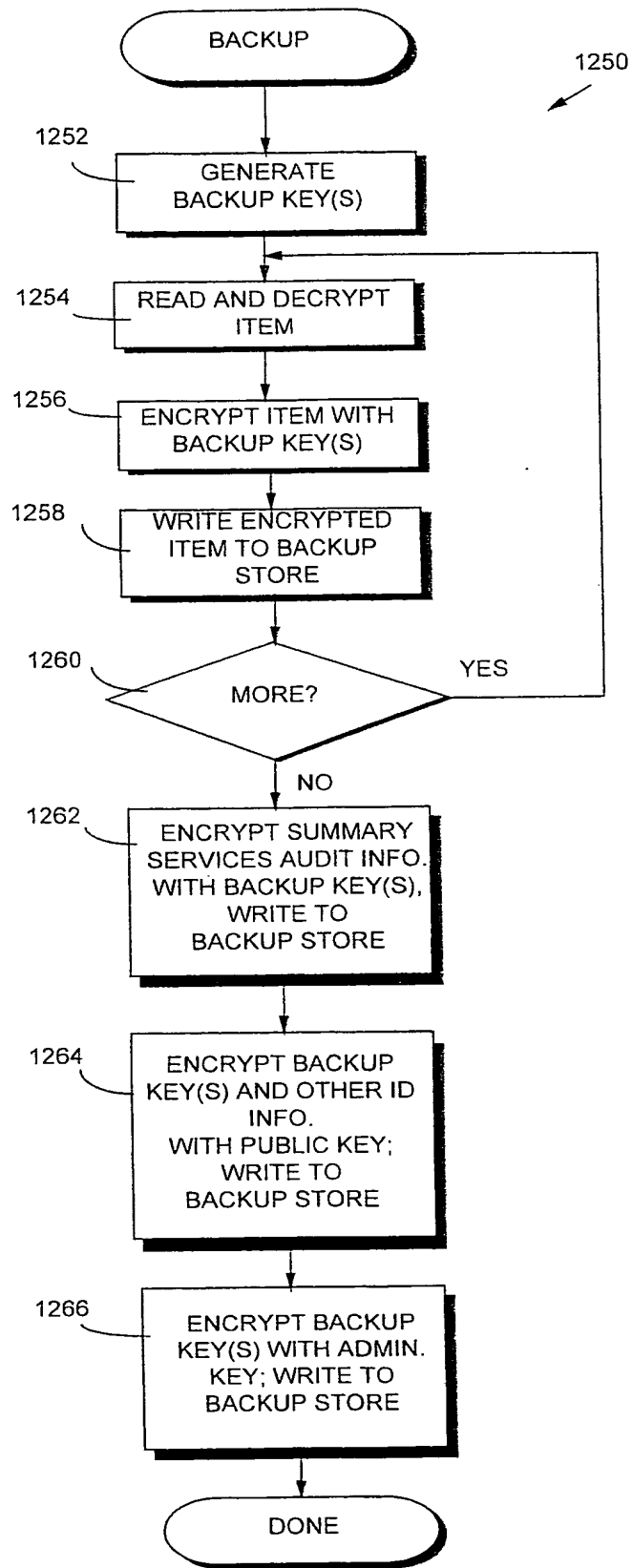
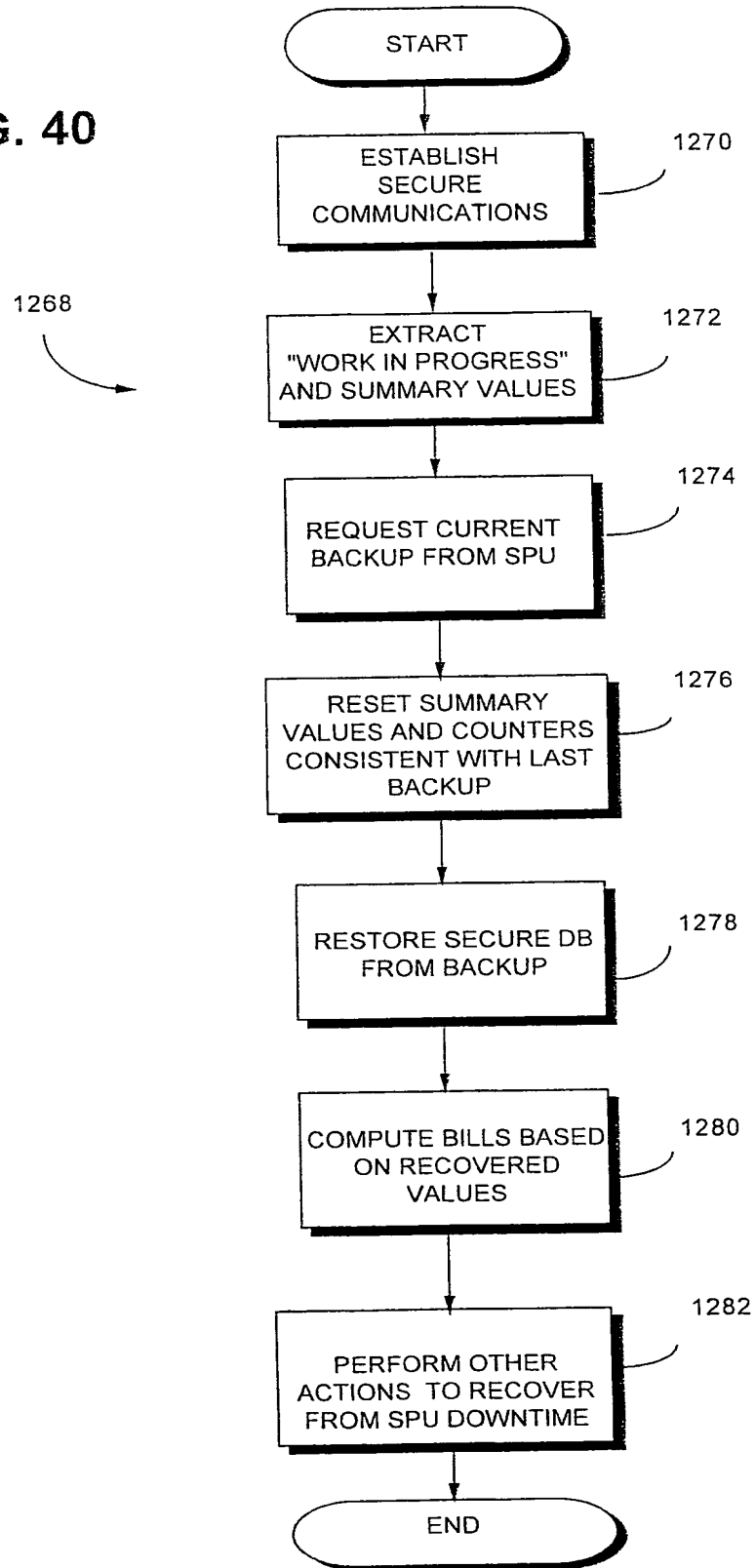


FIG. 40



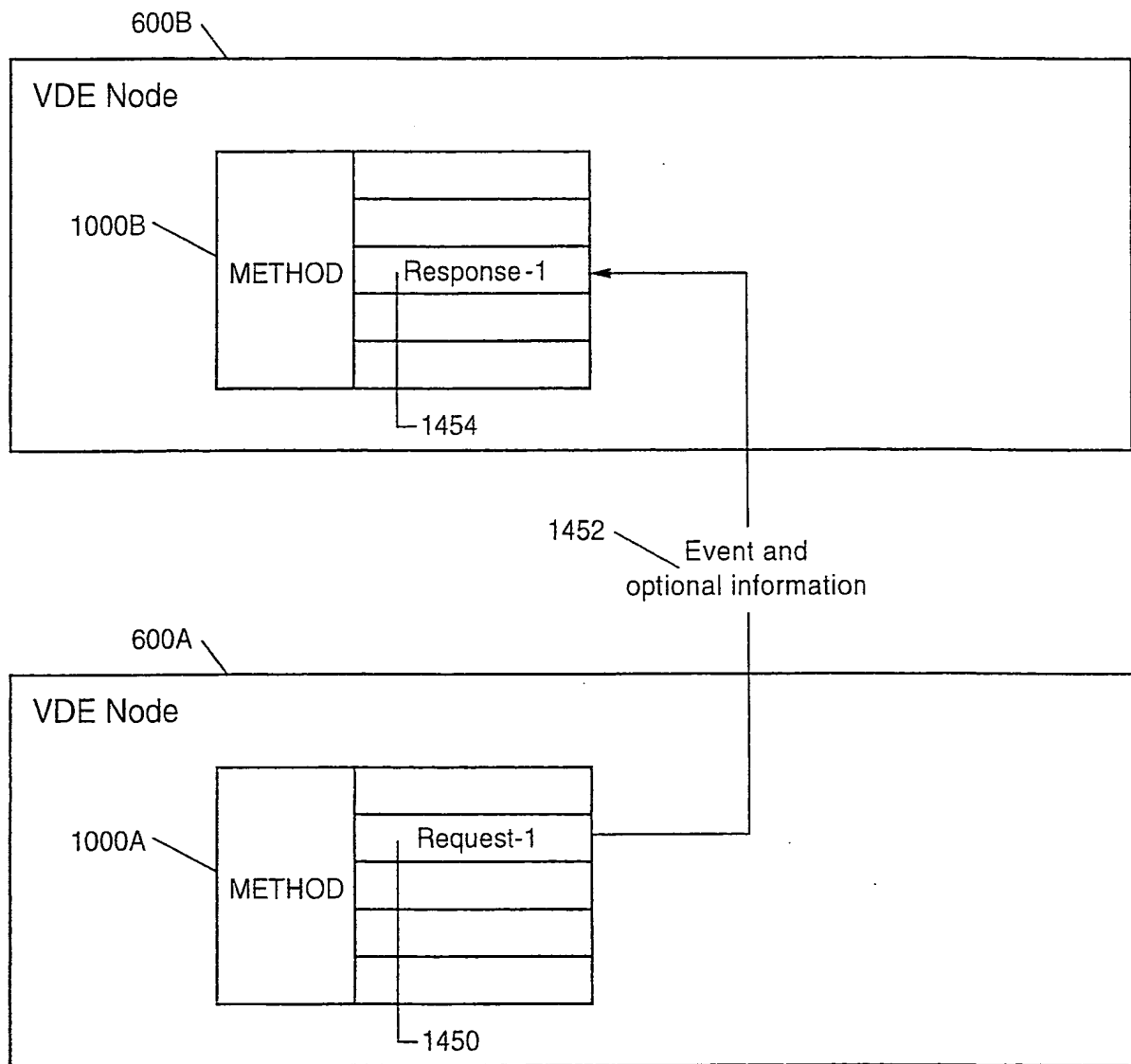


FIG. 41a

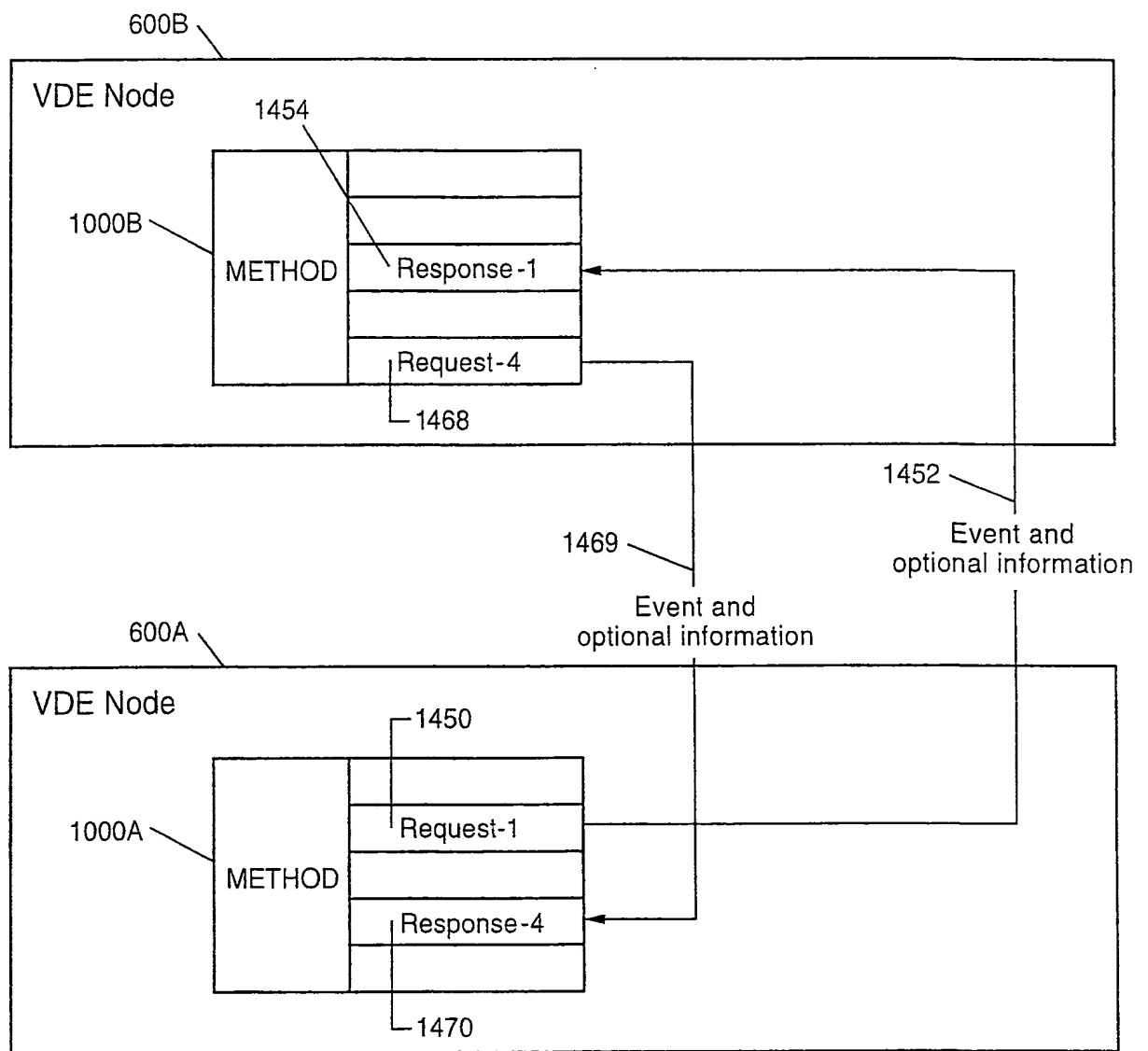


FIG. 41b

FIG. 41c

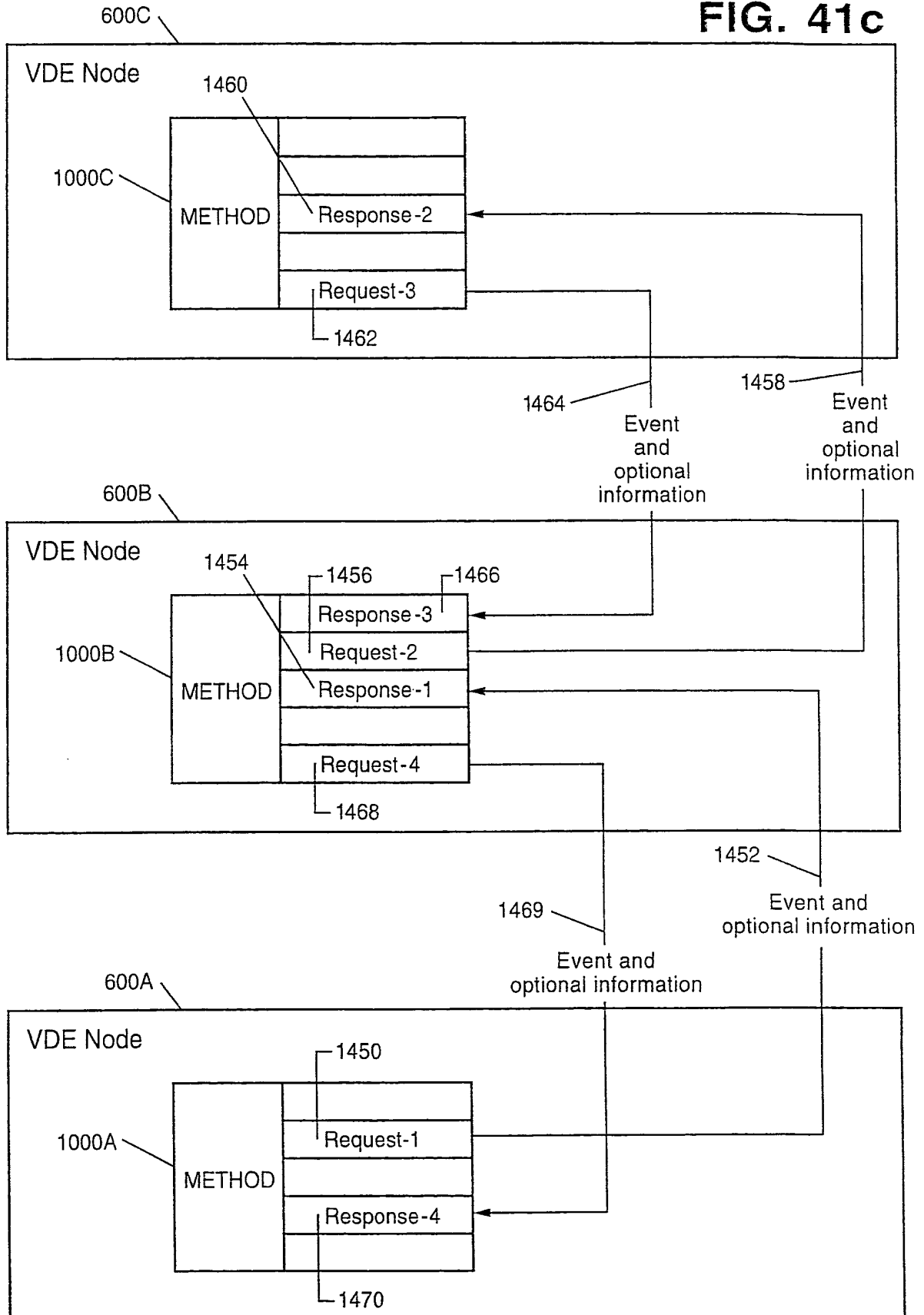
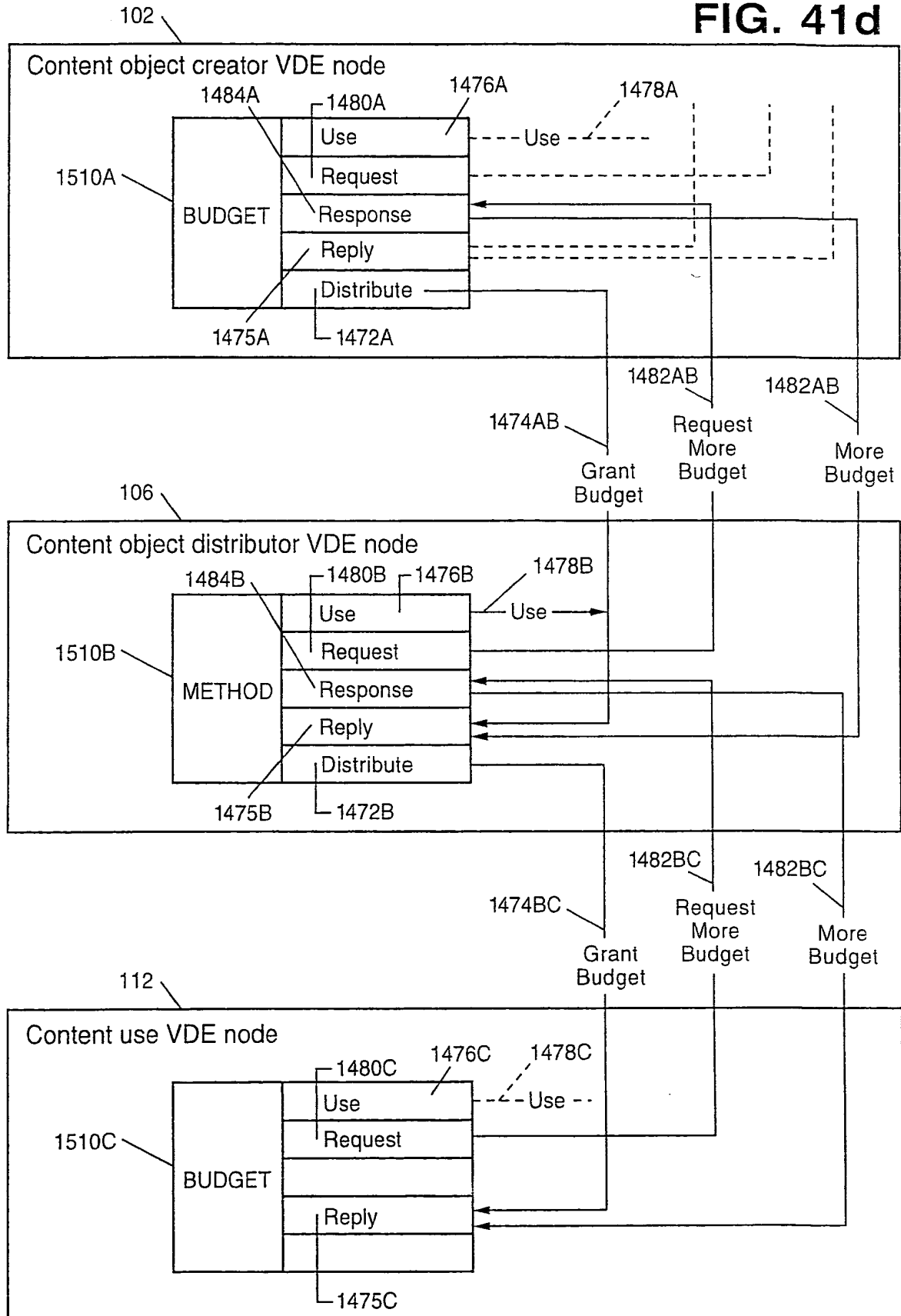
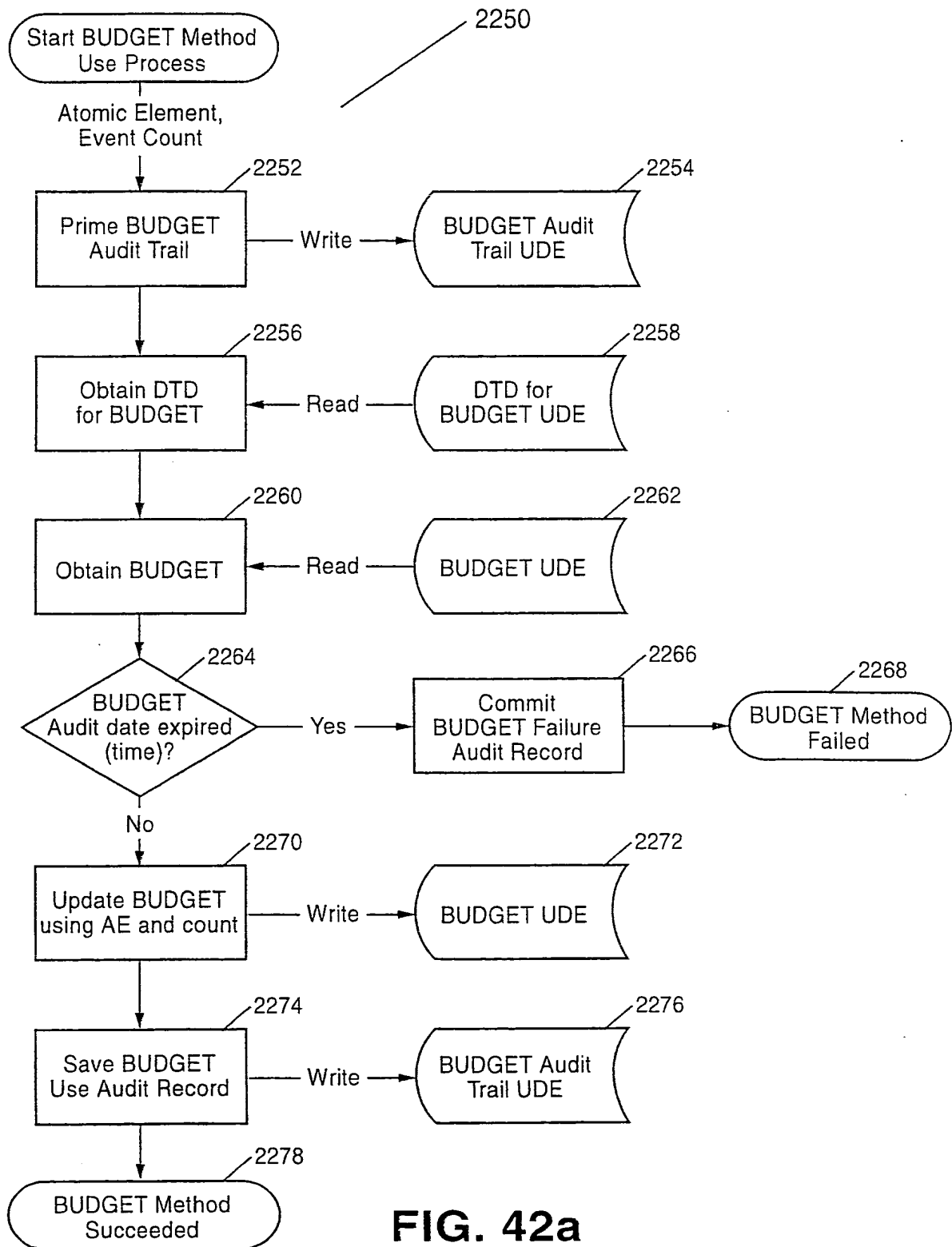


FIG. 41d





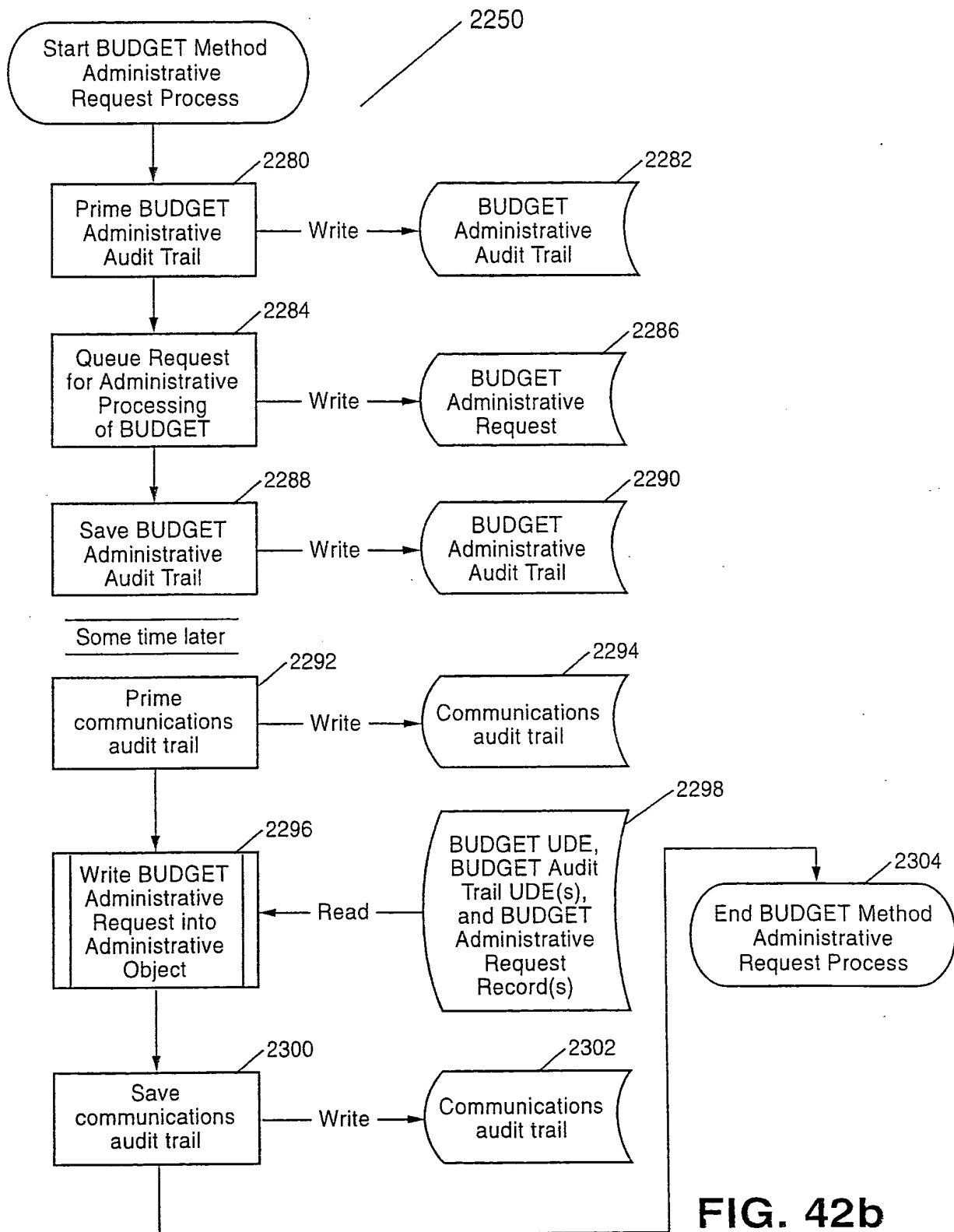


FIG. 42b

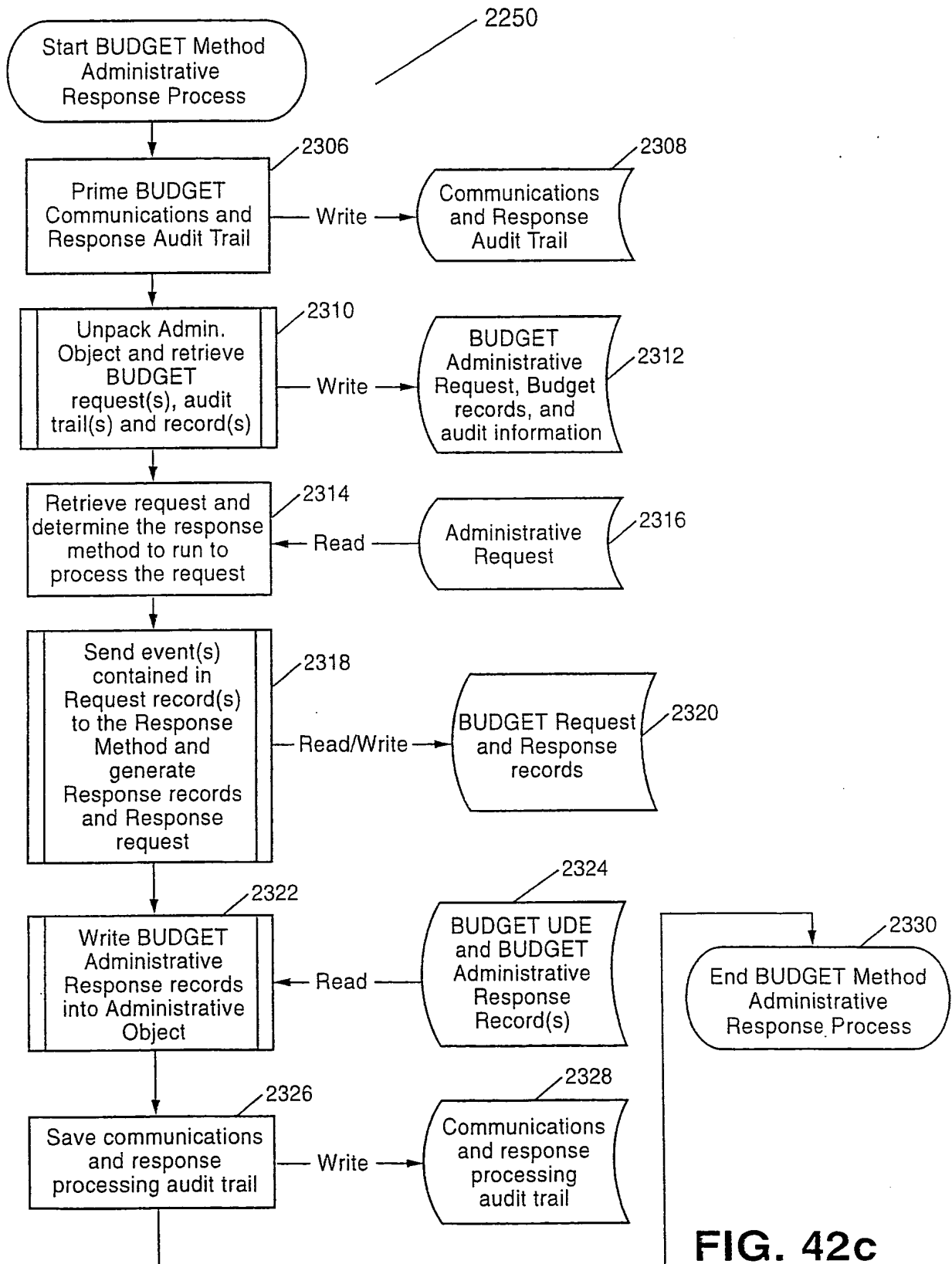


FIG. 42c

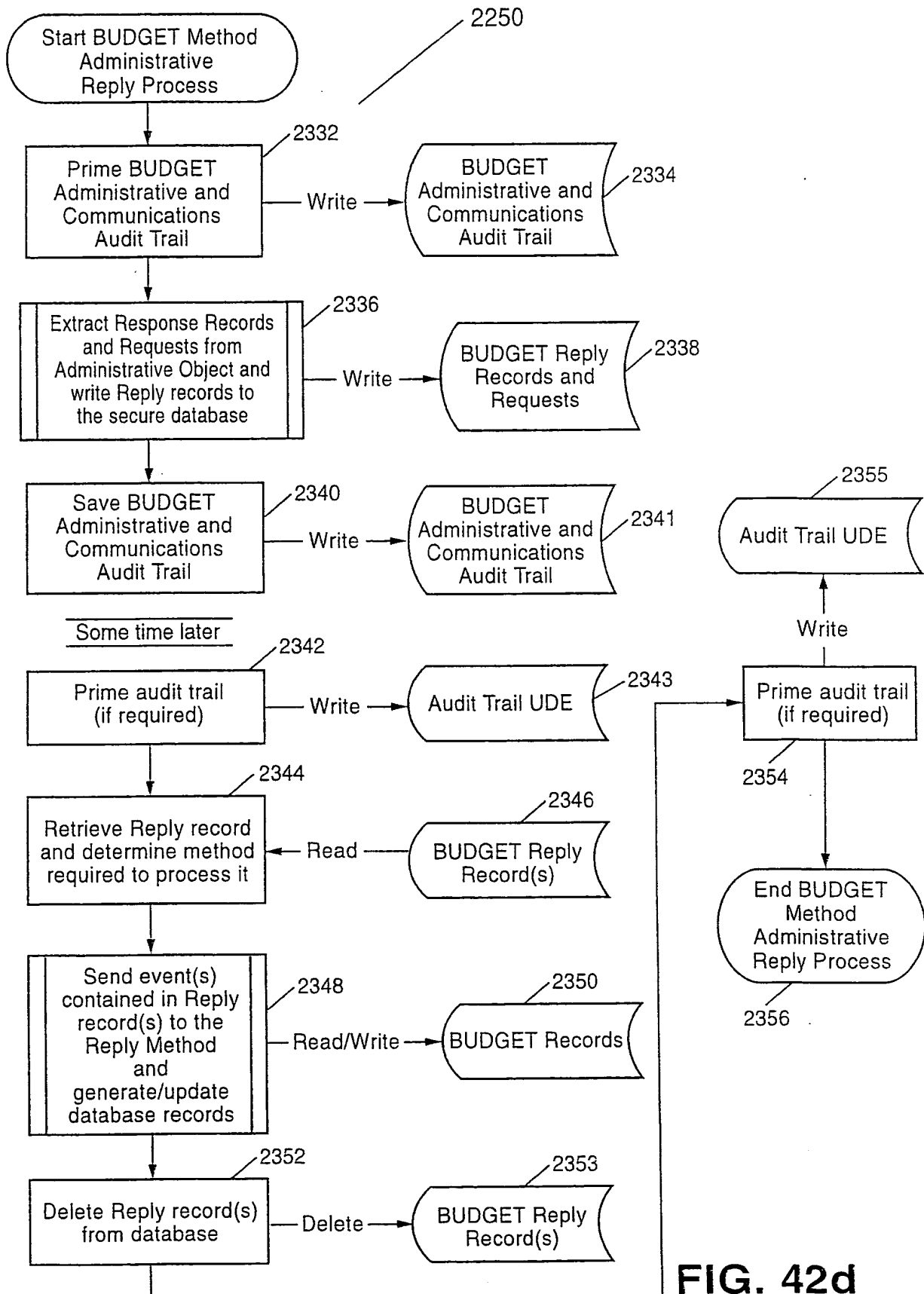


FIG. 42d

FIG. 43a

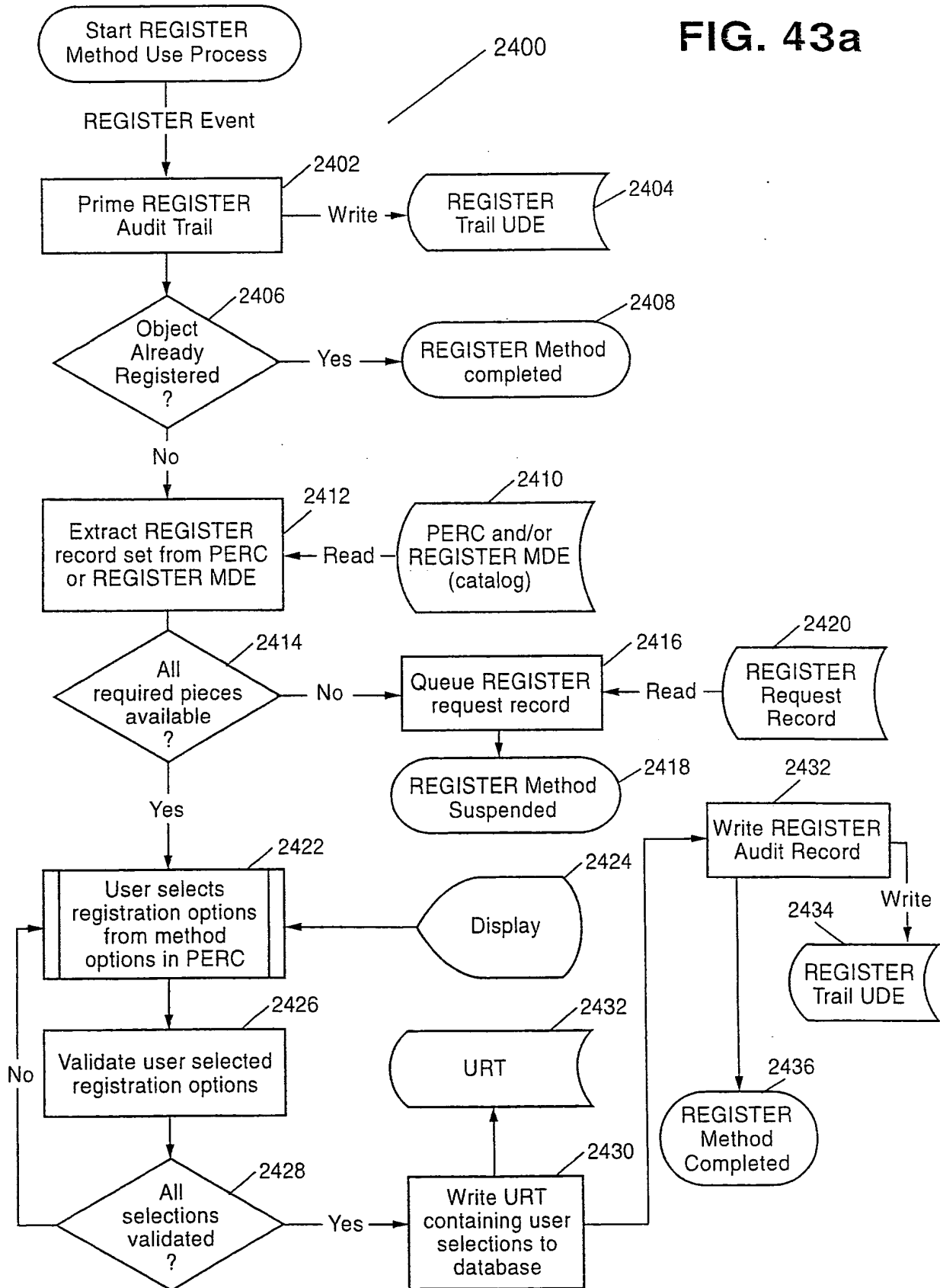


FIG. 43b

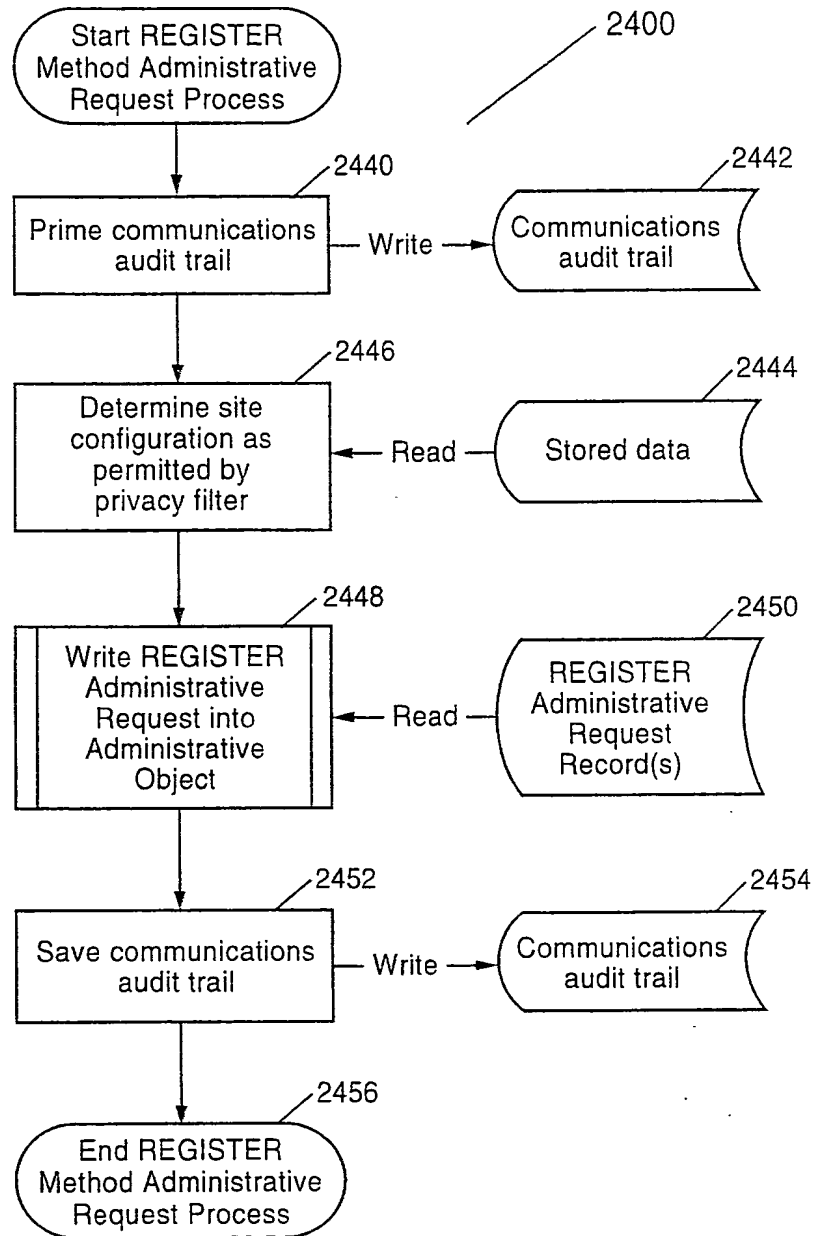


FIG. 43c

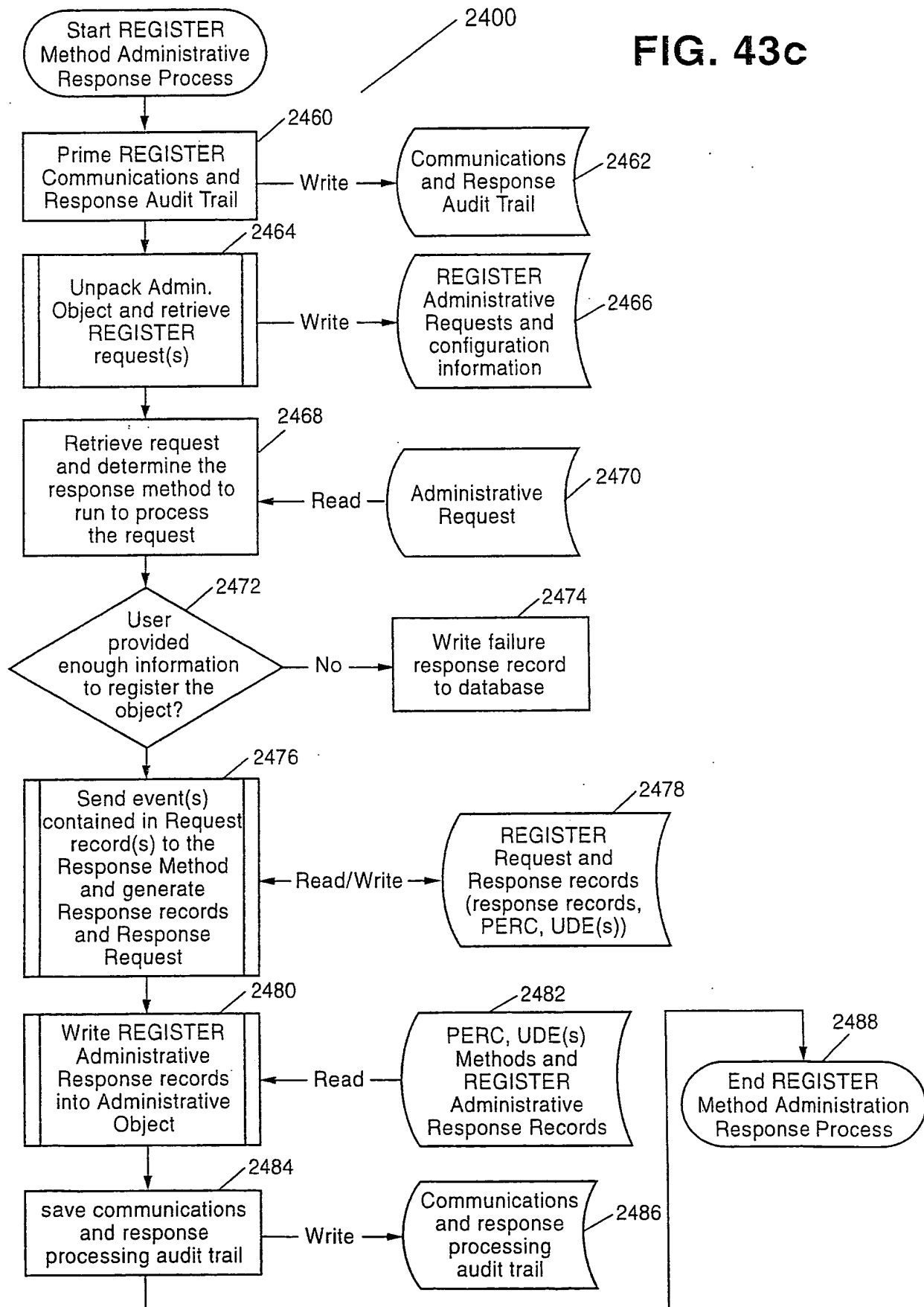


FIG. 43d

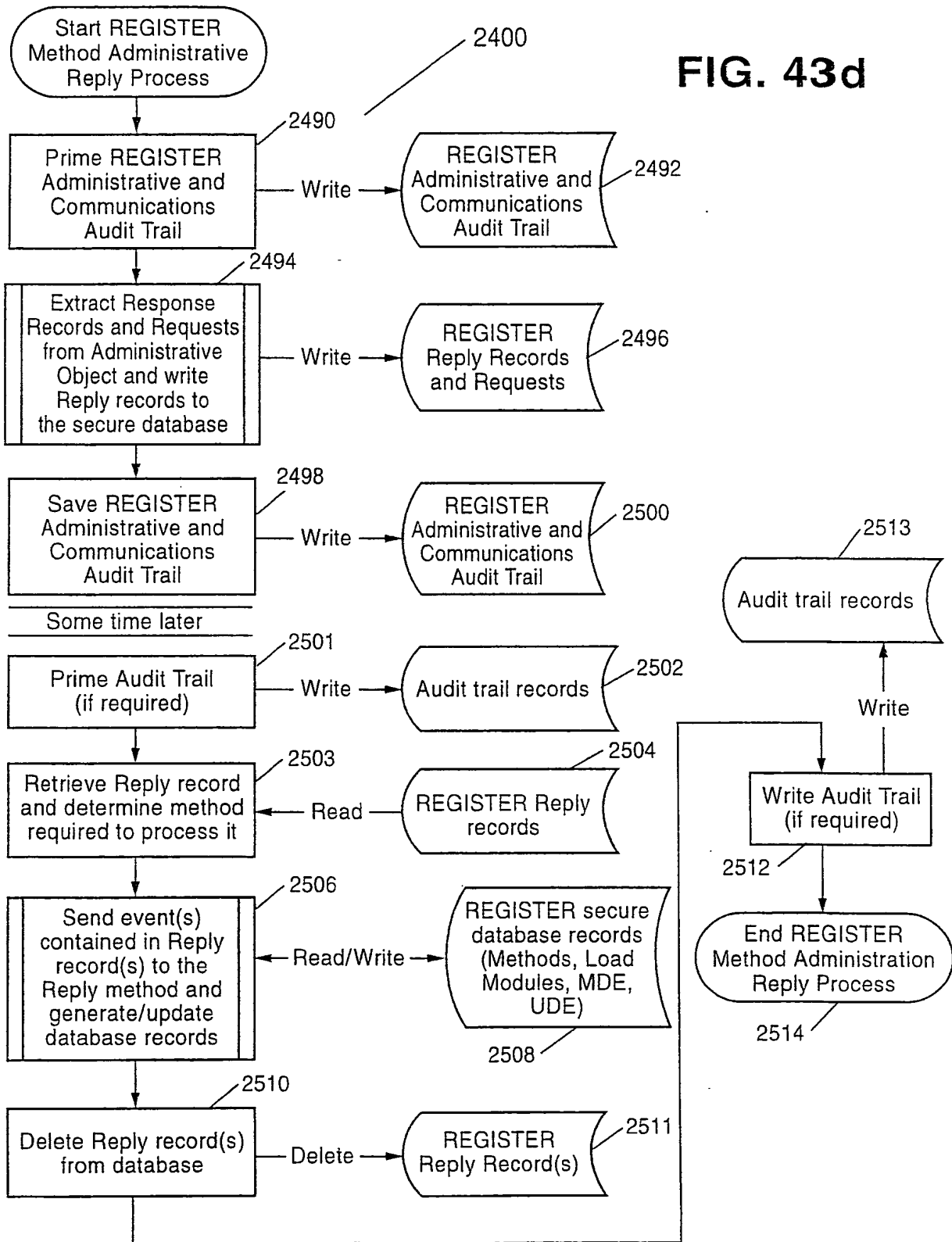


FIG. 44a

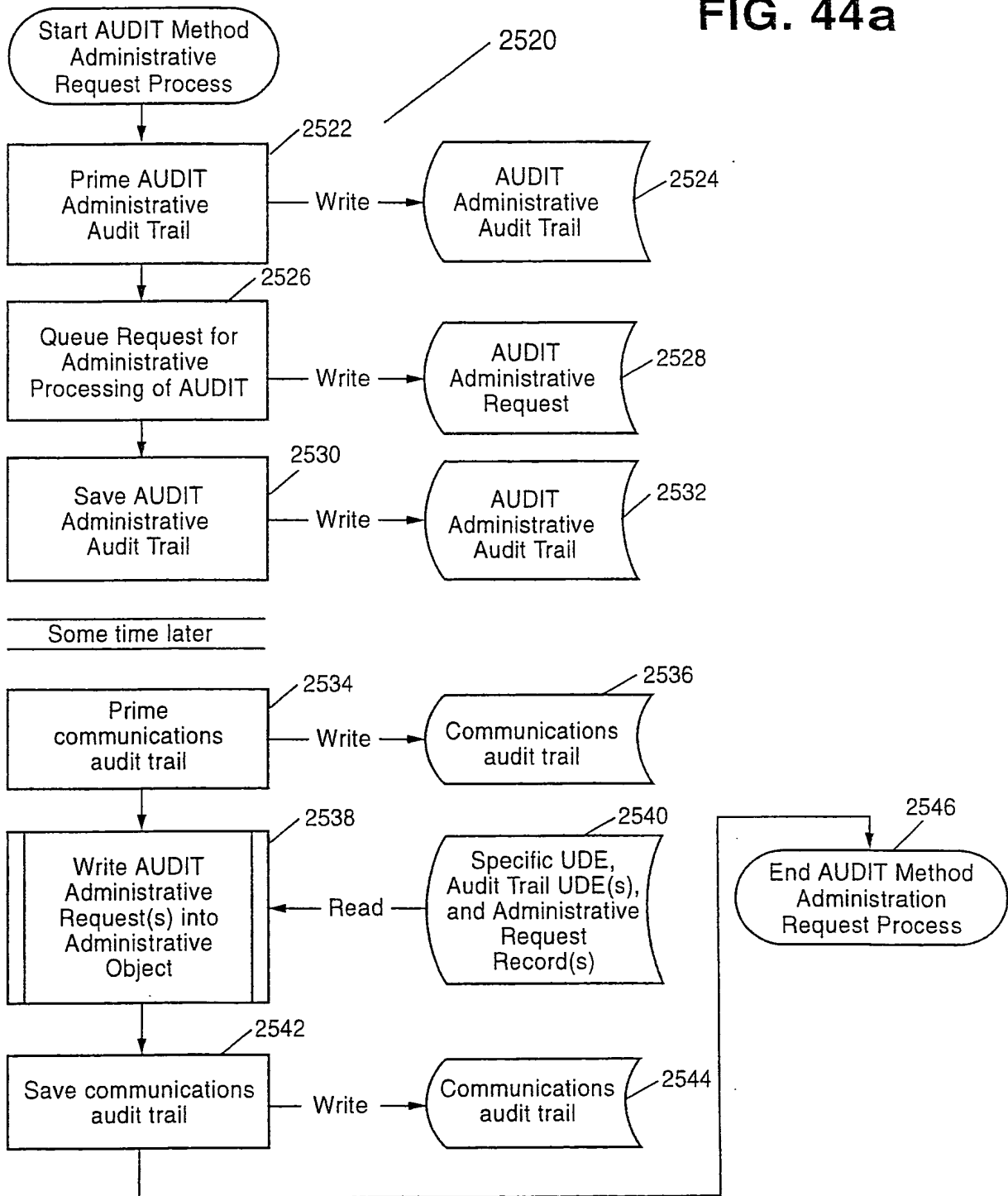


FIG. 44b

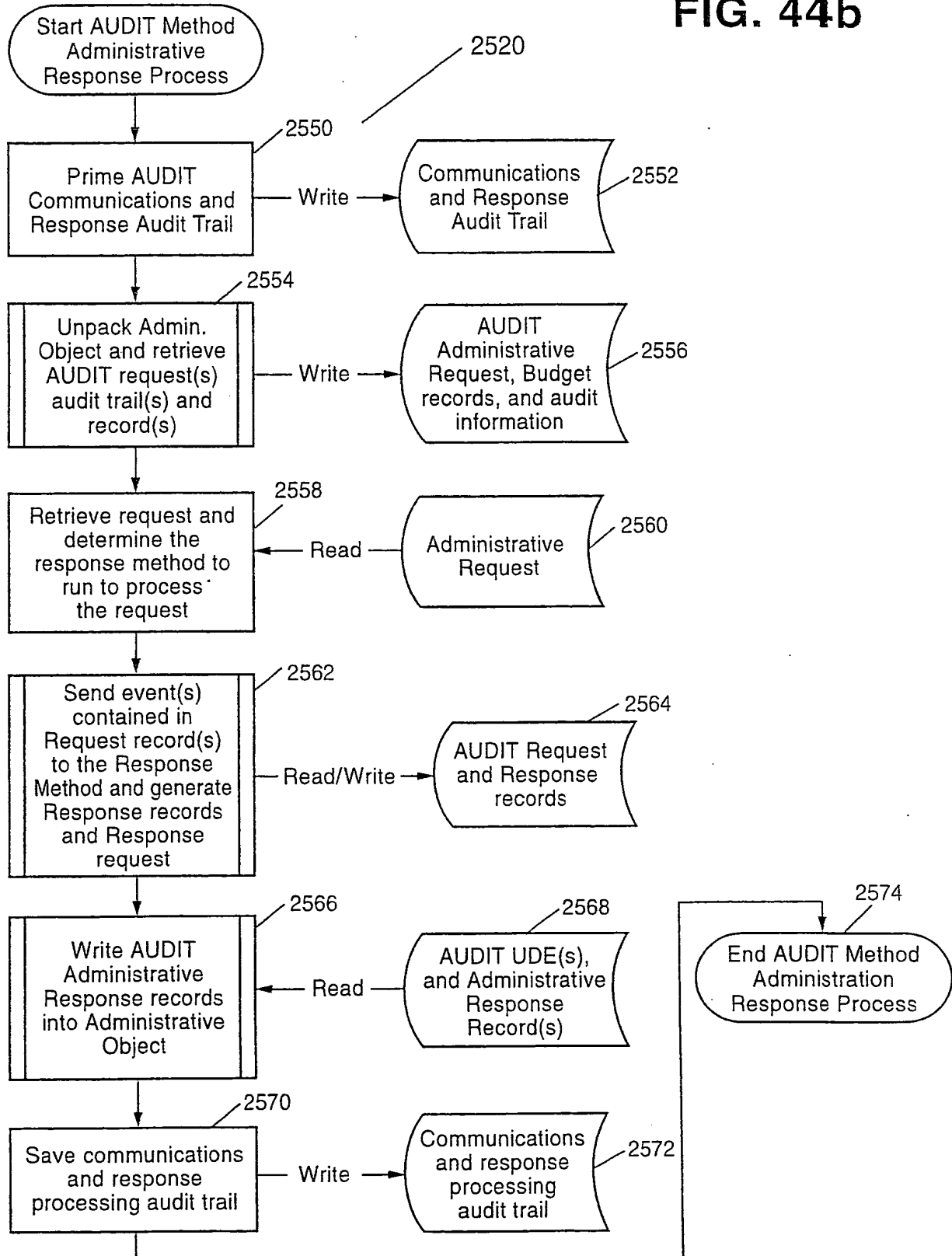


FIG. 44c

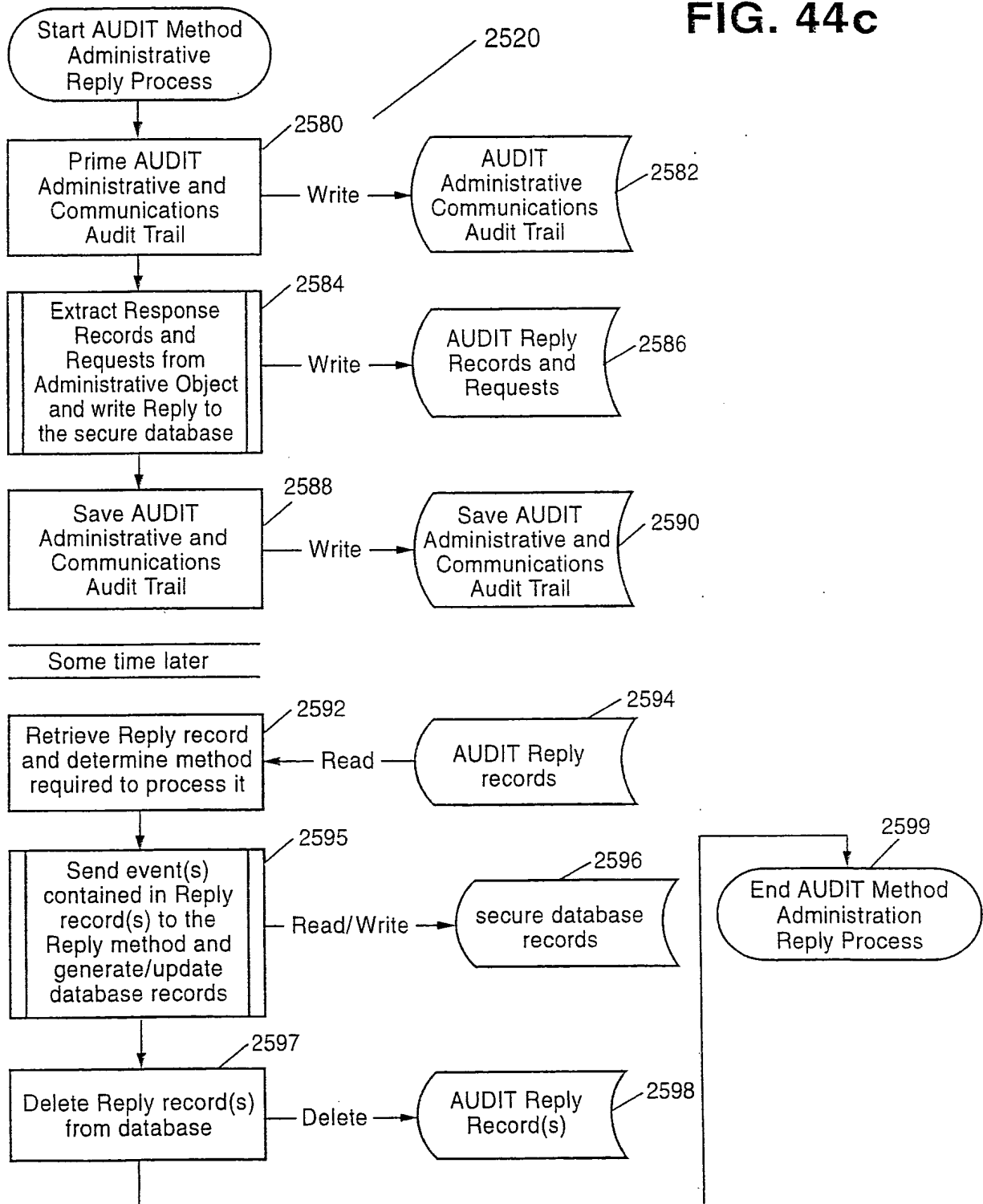


FIG. 45

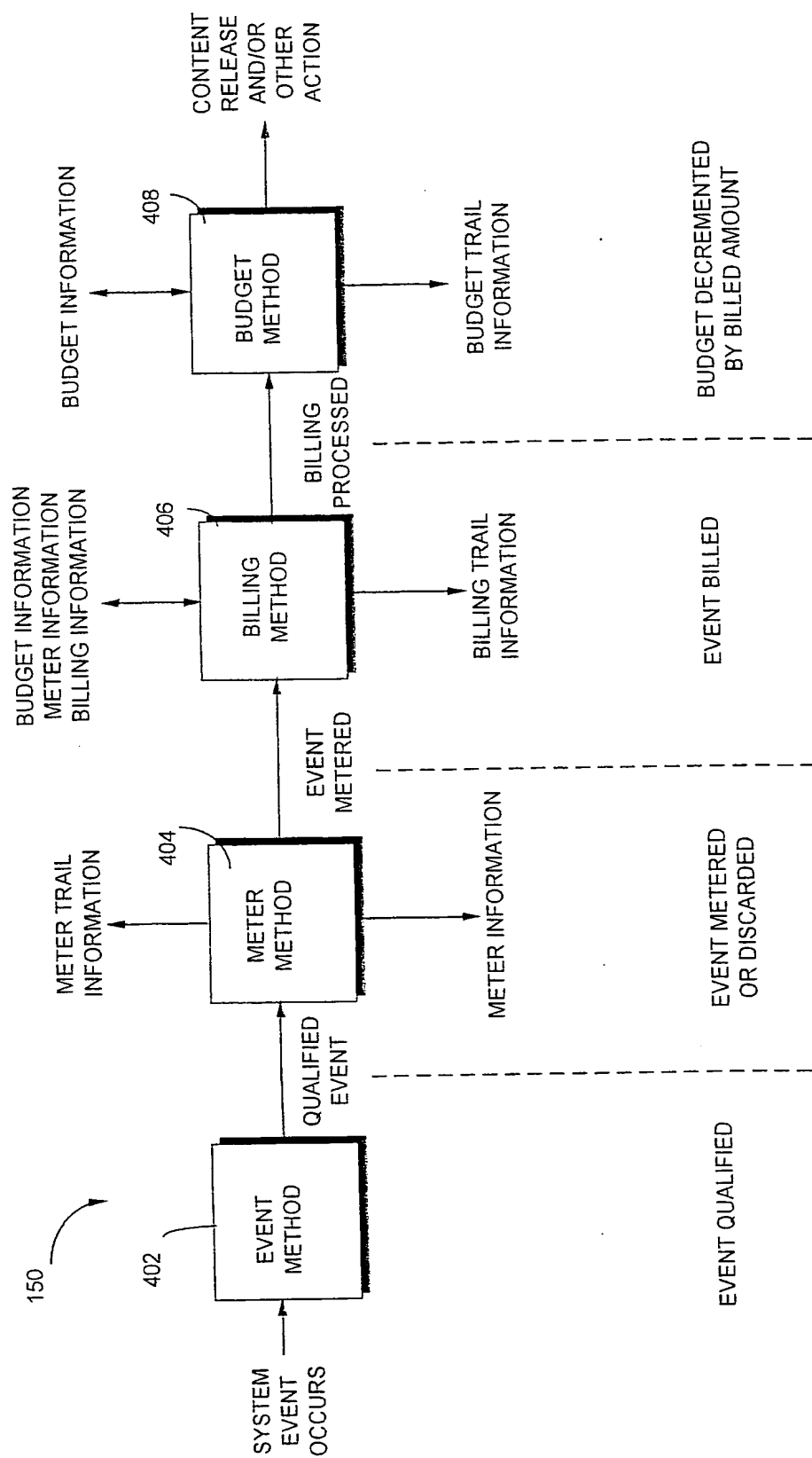


FIG. 46

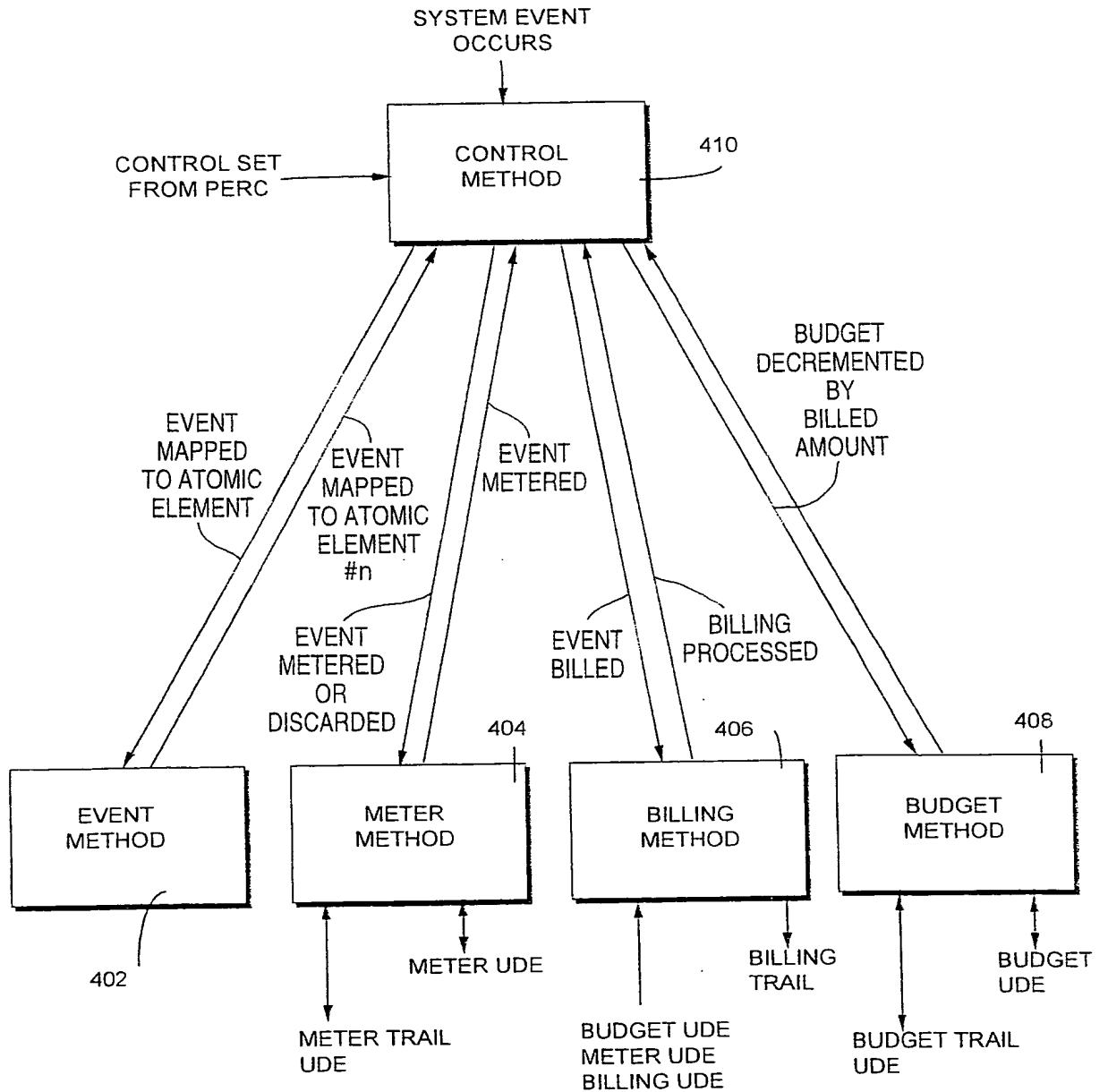


FIG. 47

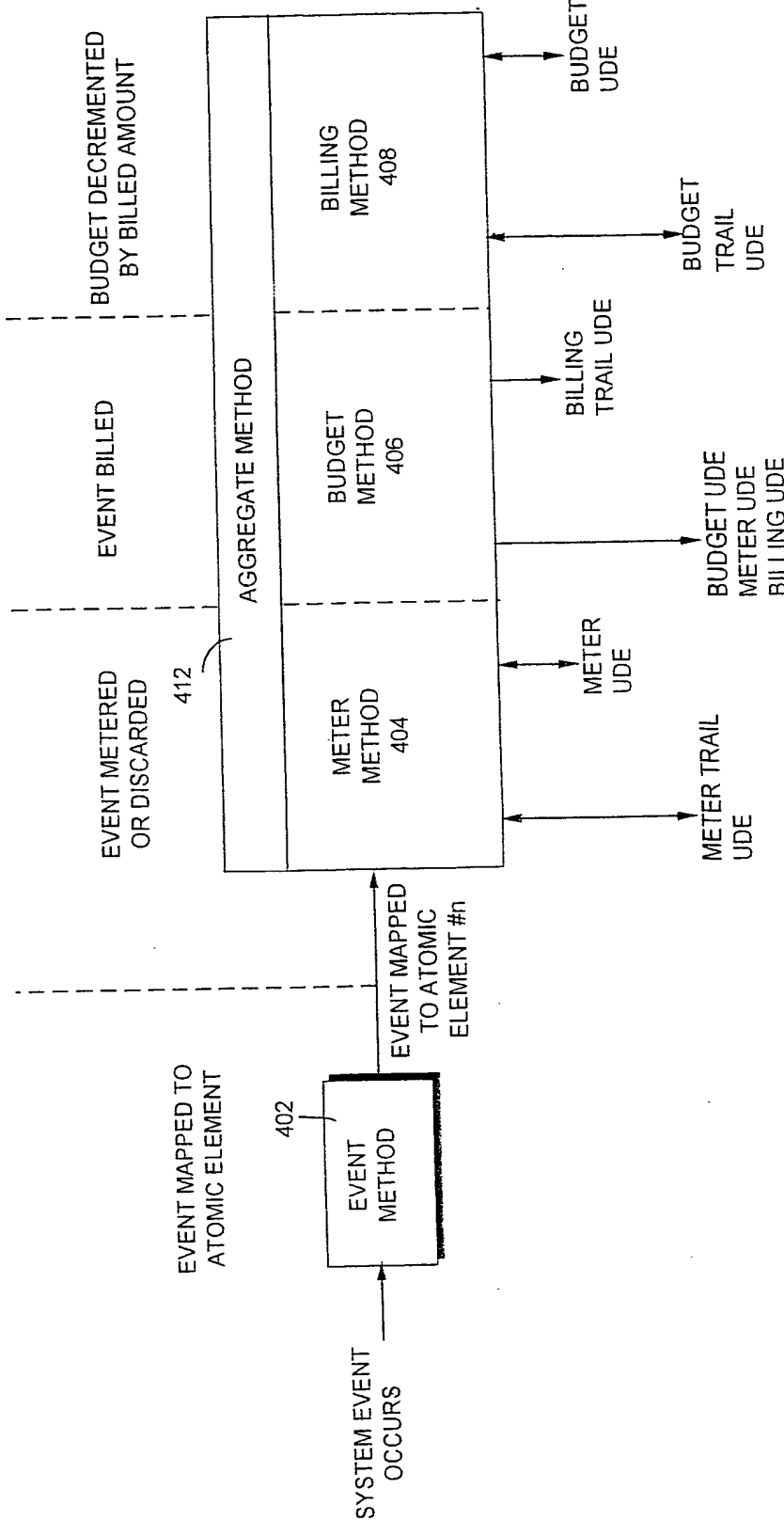
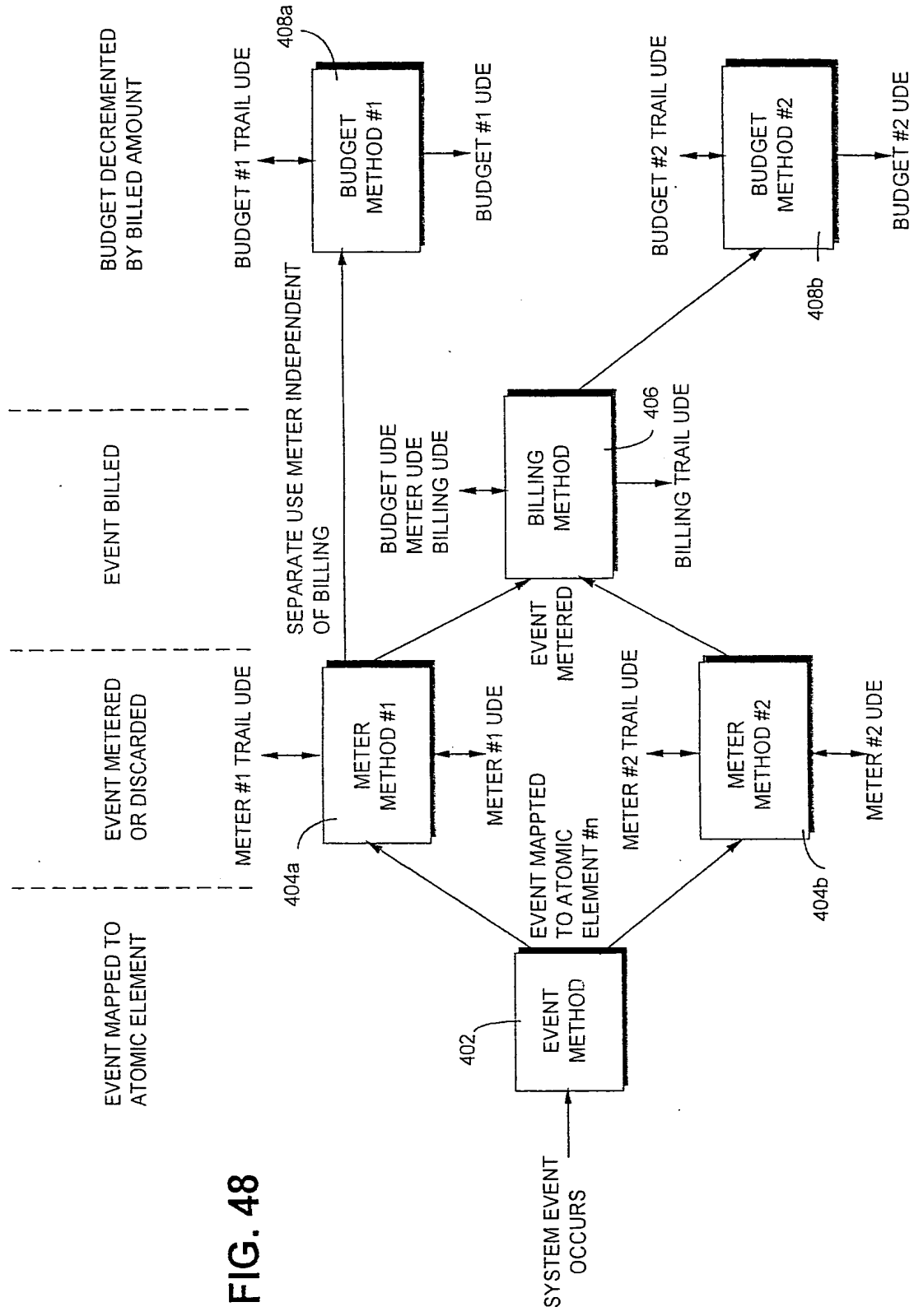
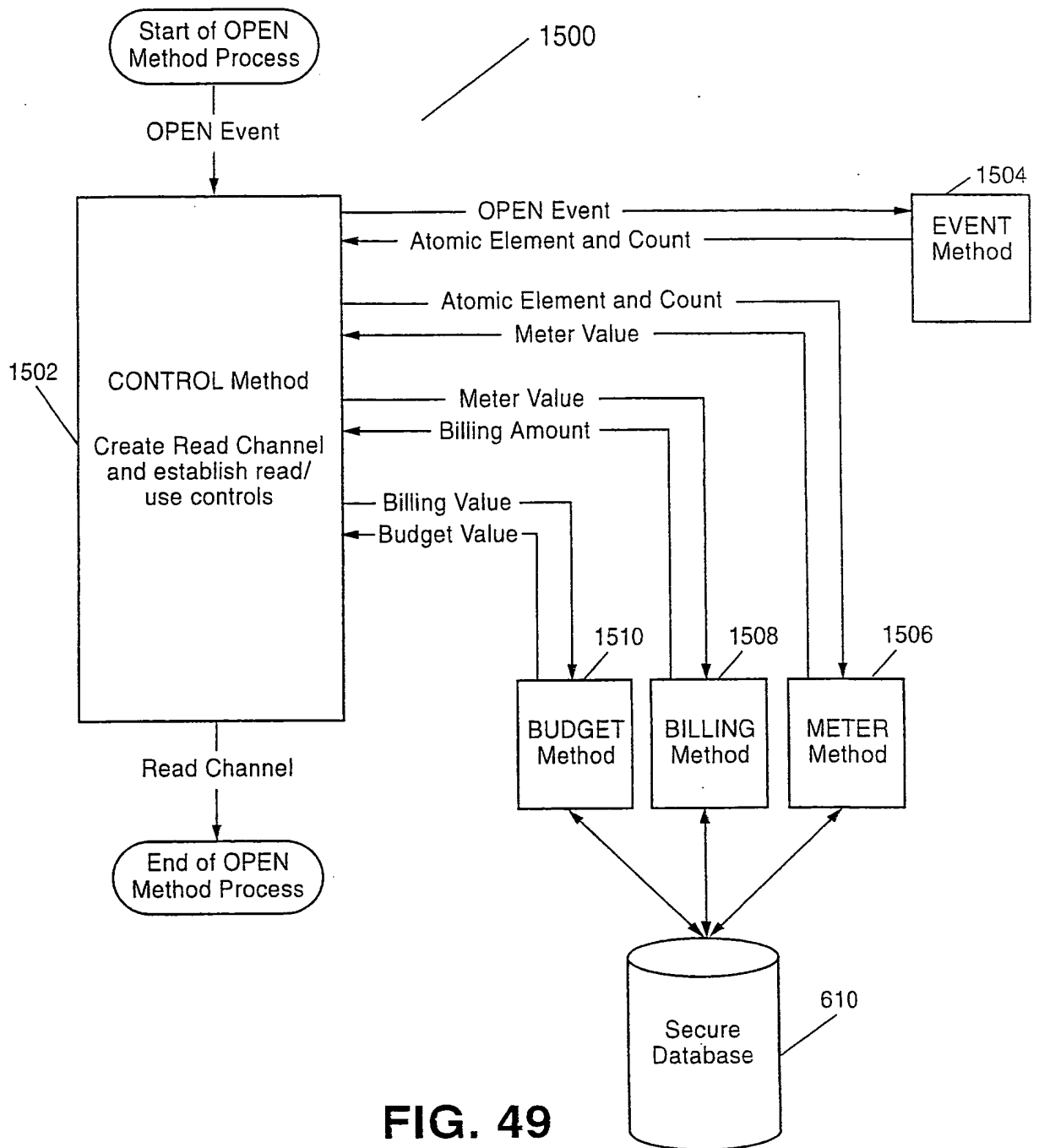
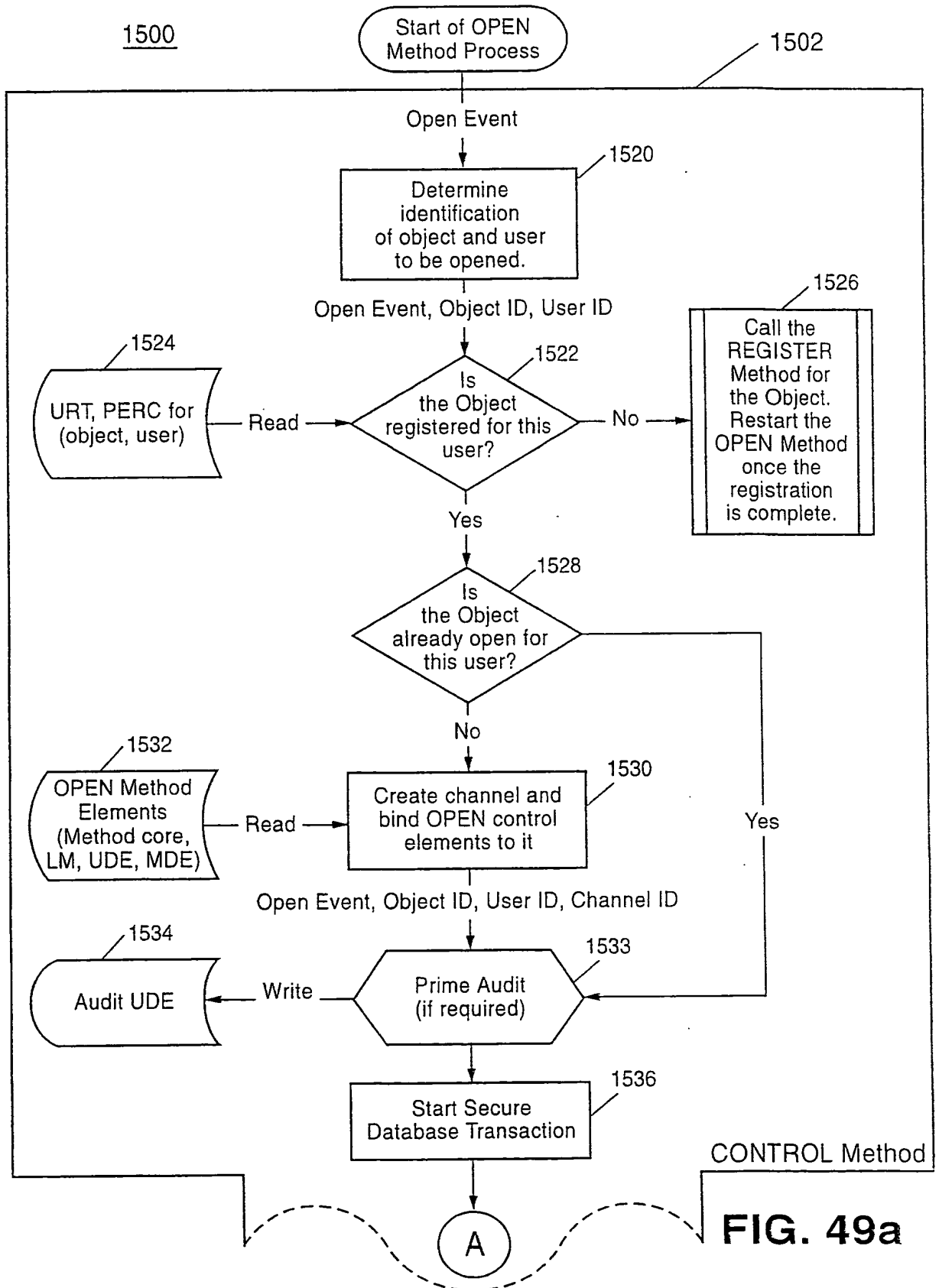
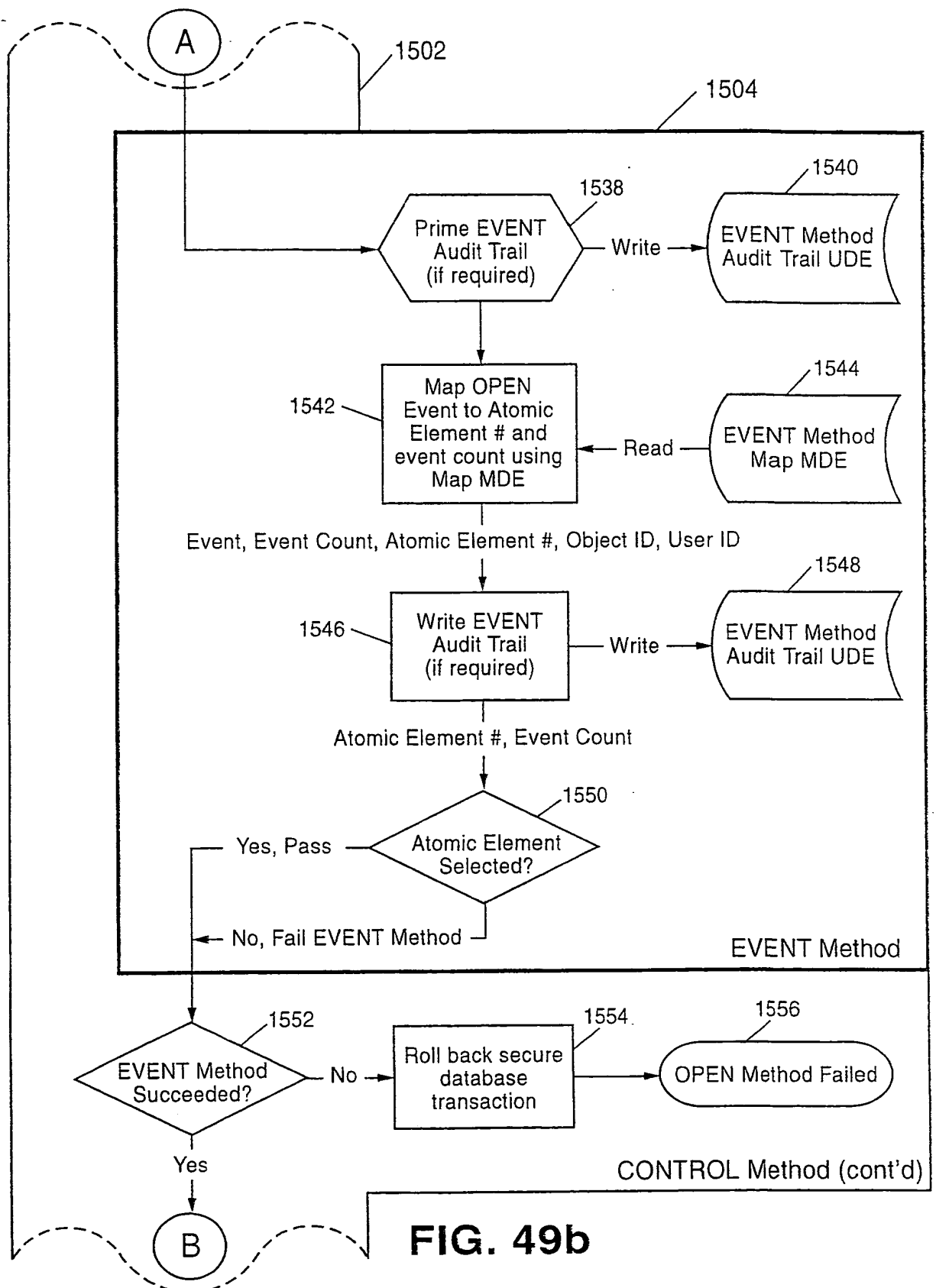


FIG. 48









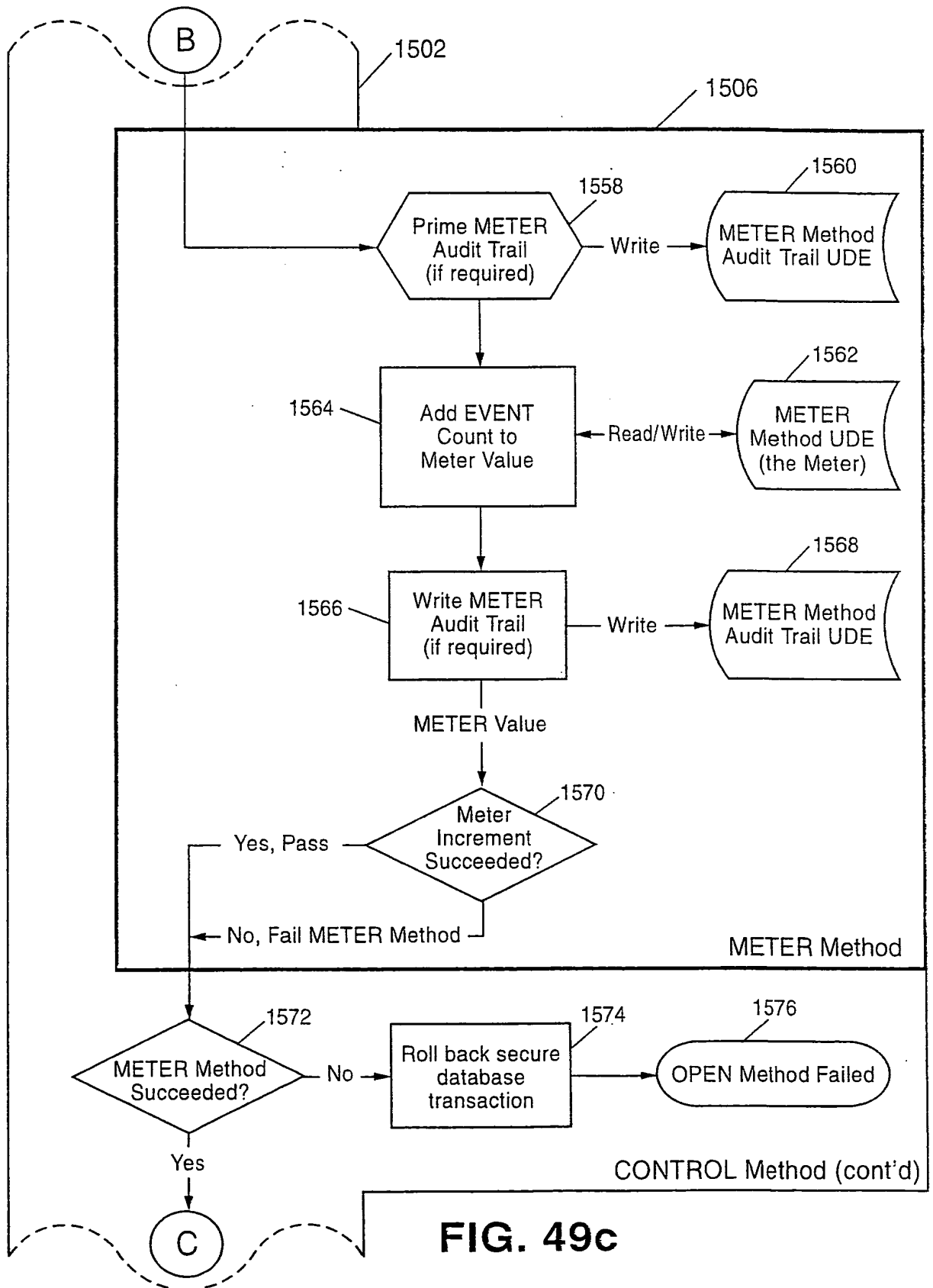


FIG. 49c

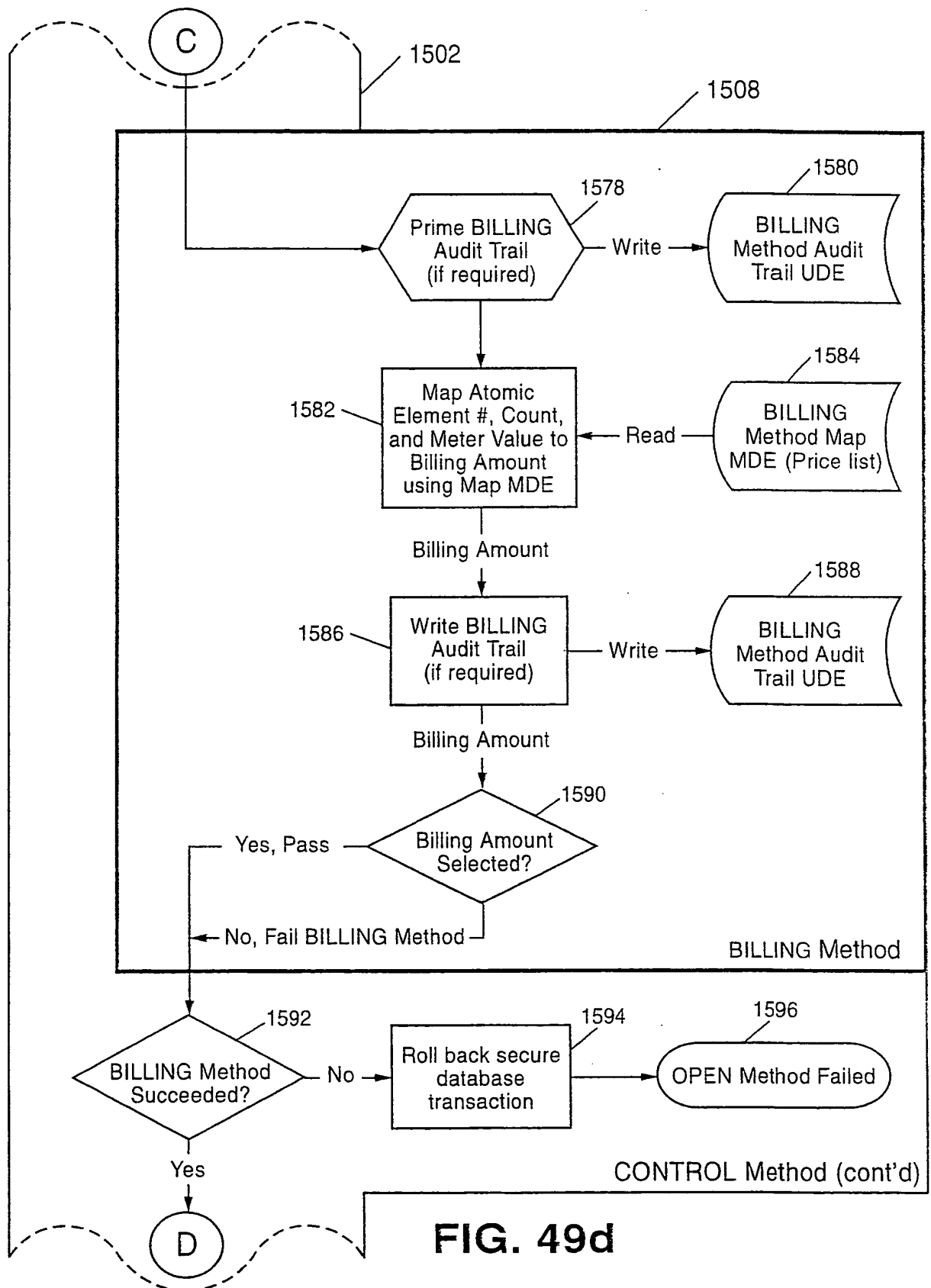


FIG. 49d

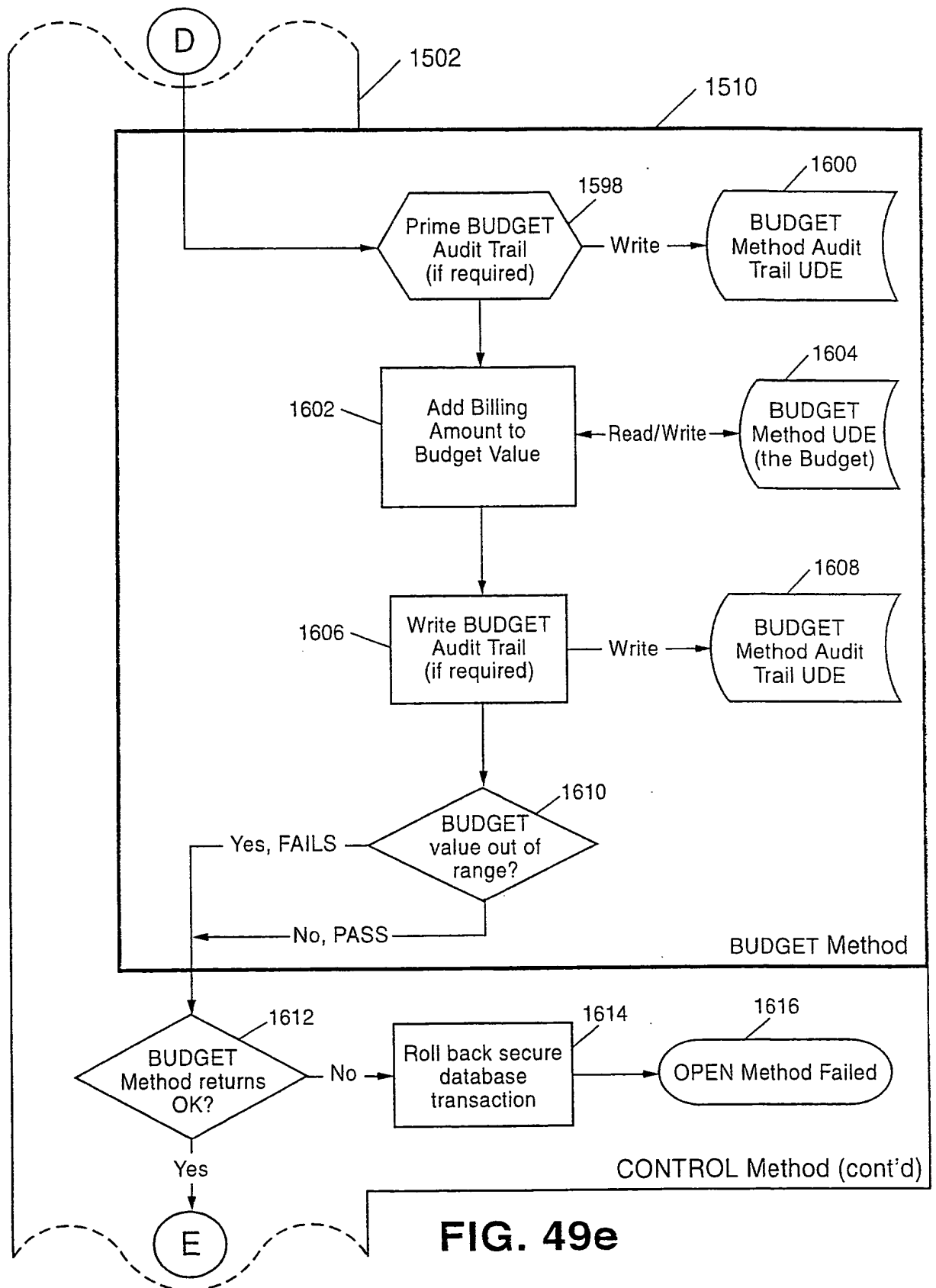


FIG. 49e

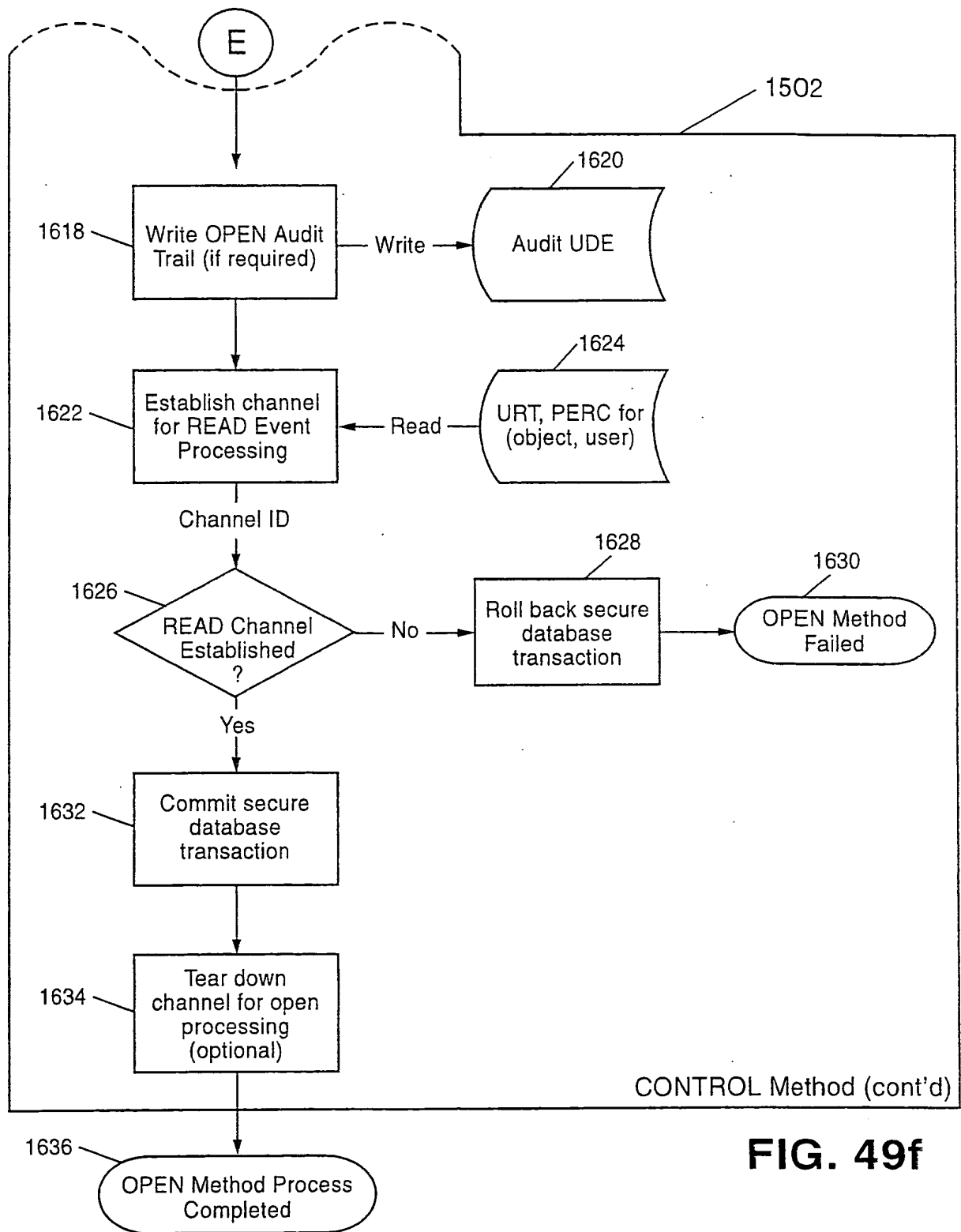
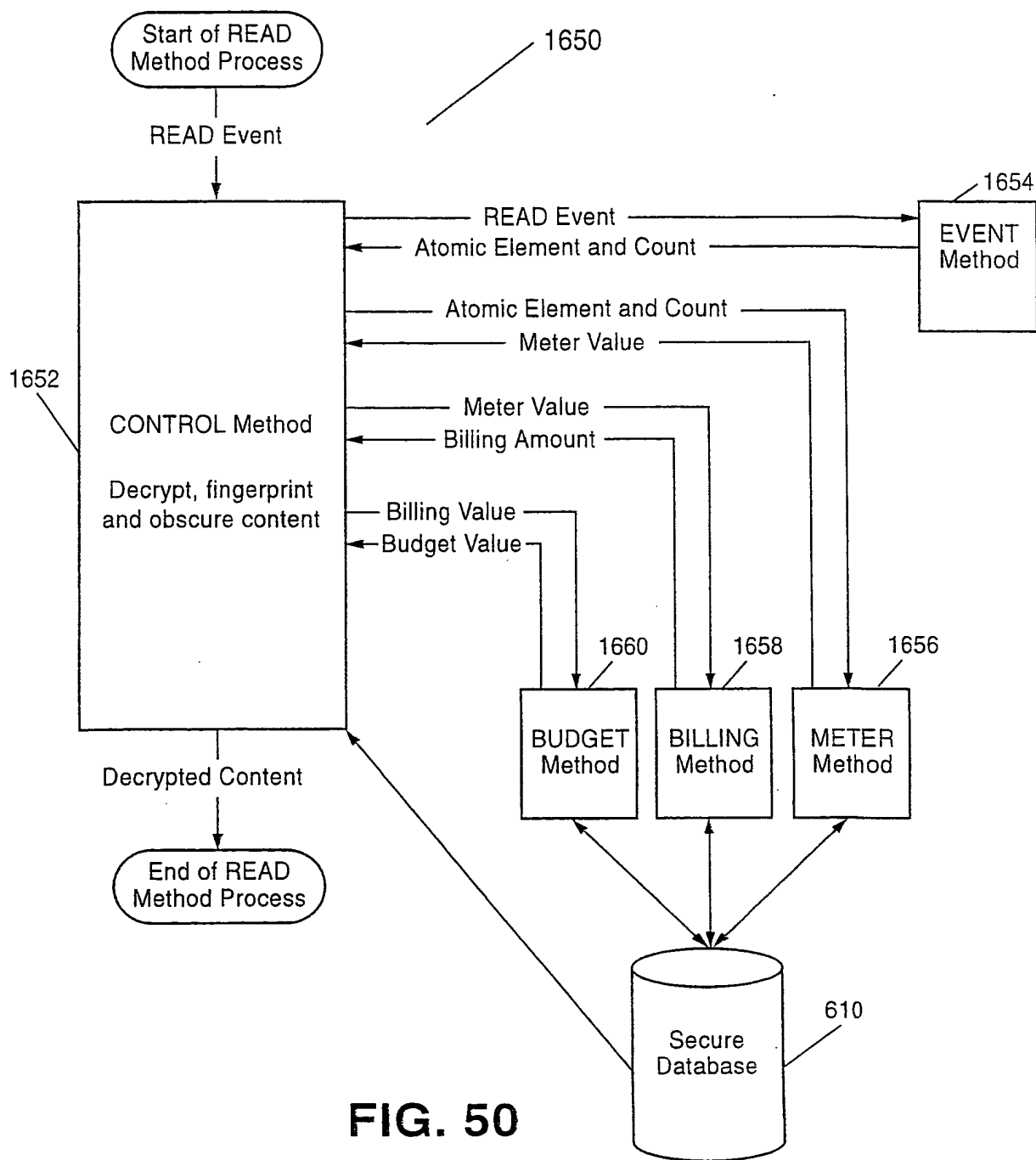
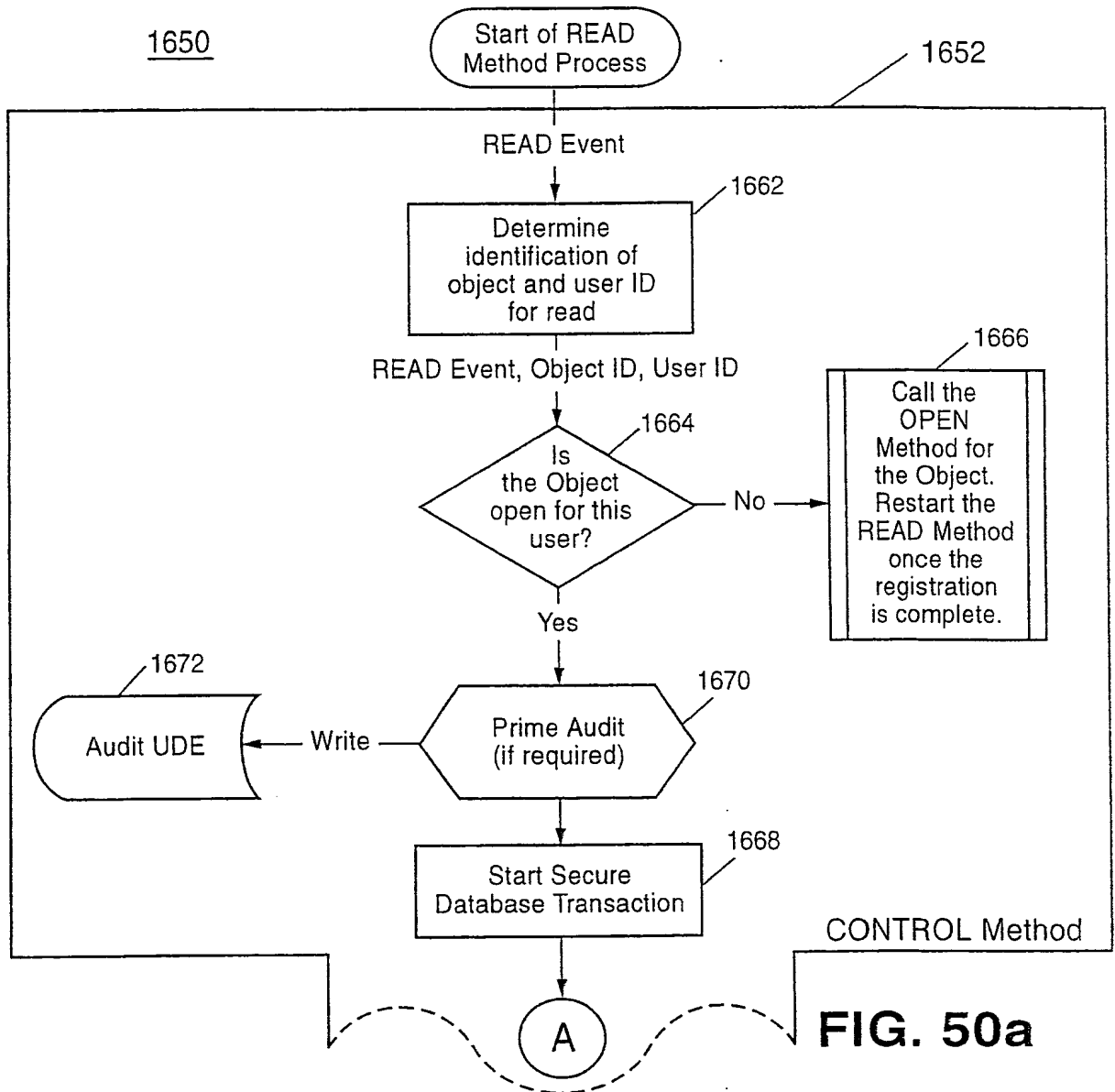
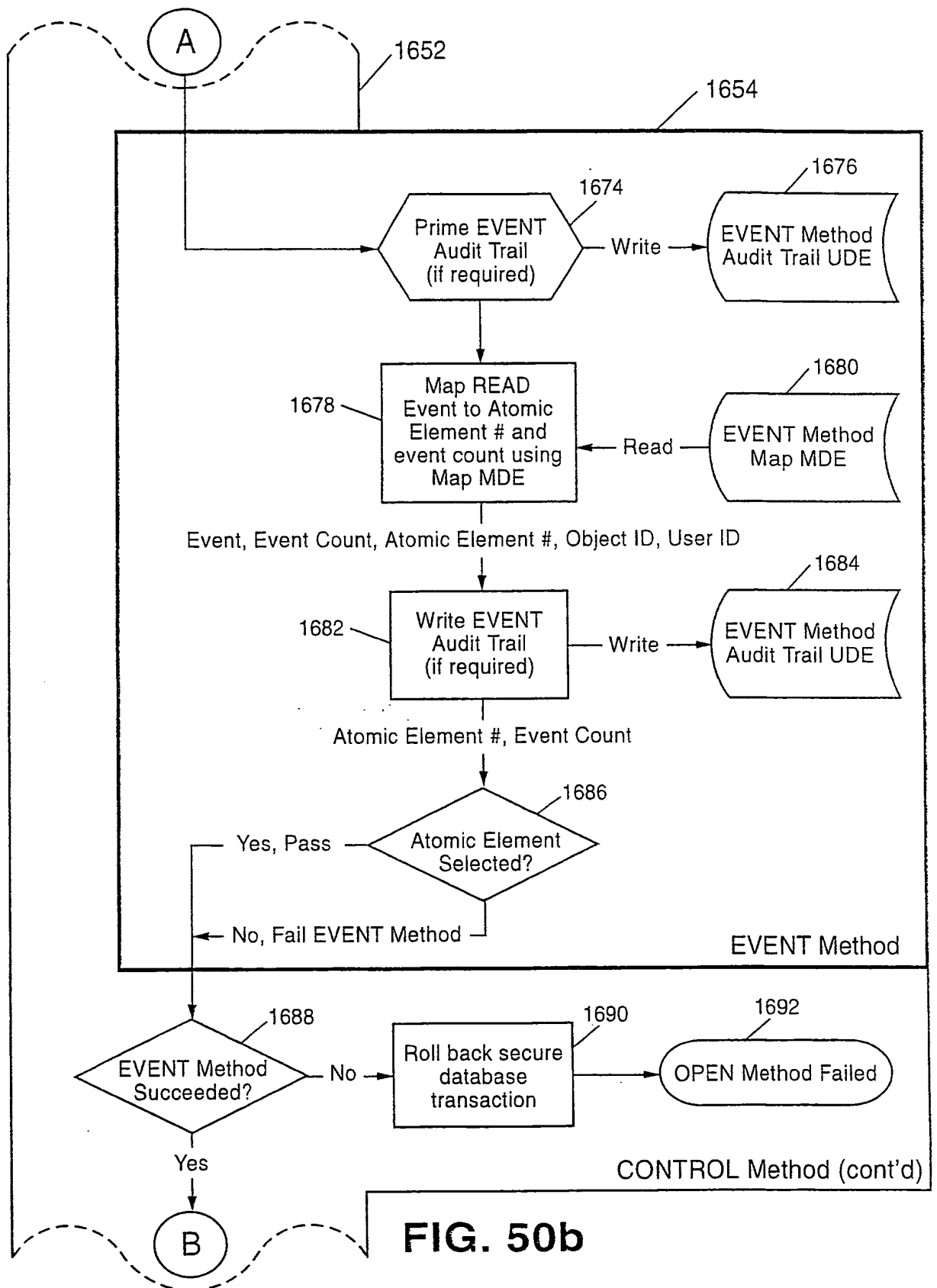
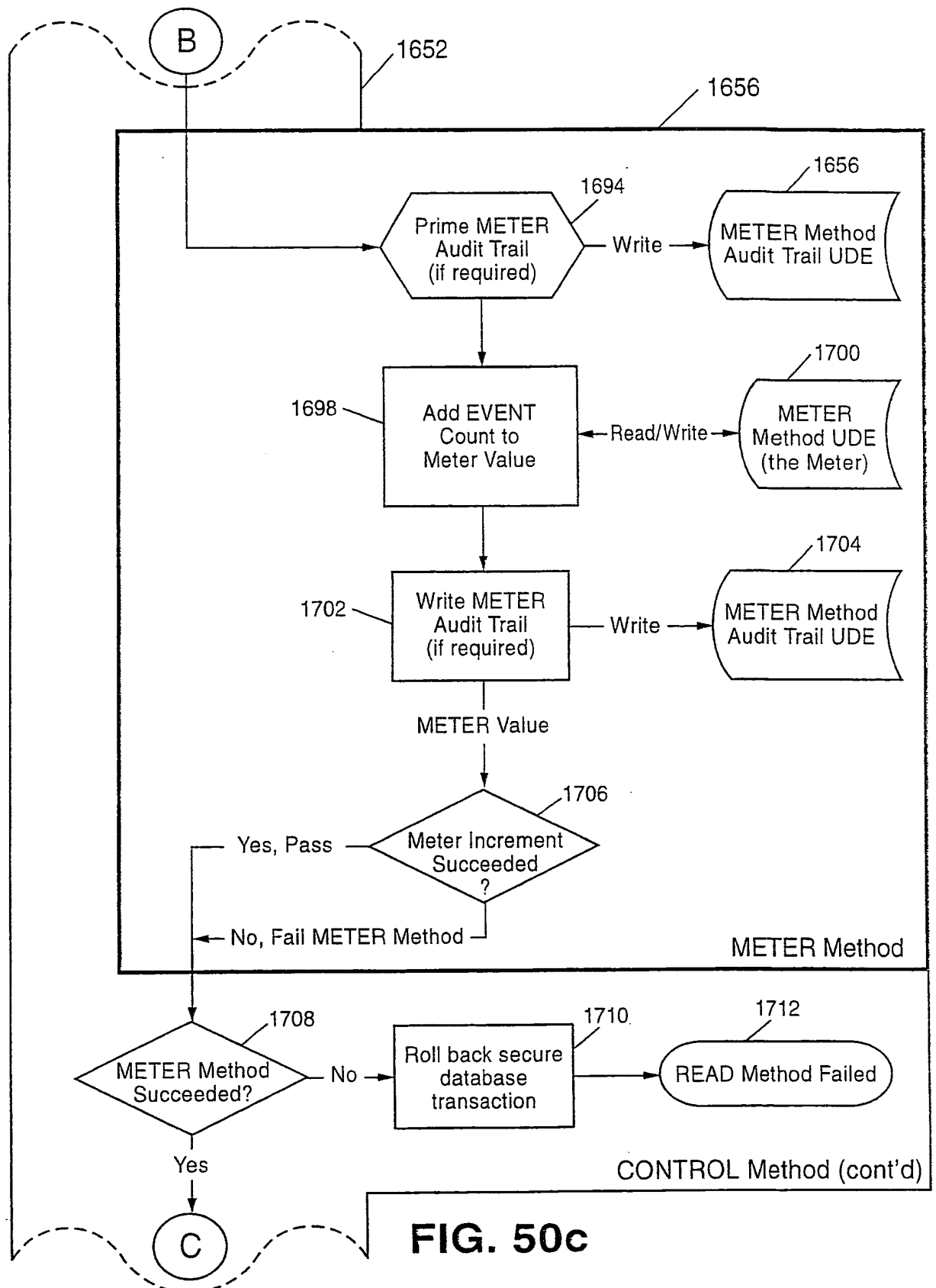


FIG. 49f









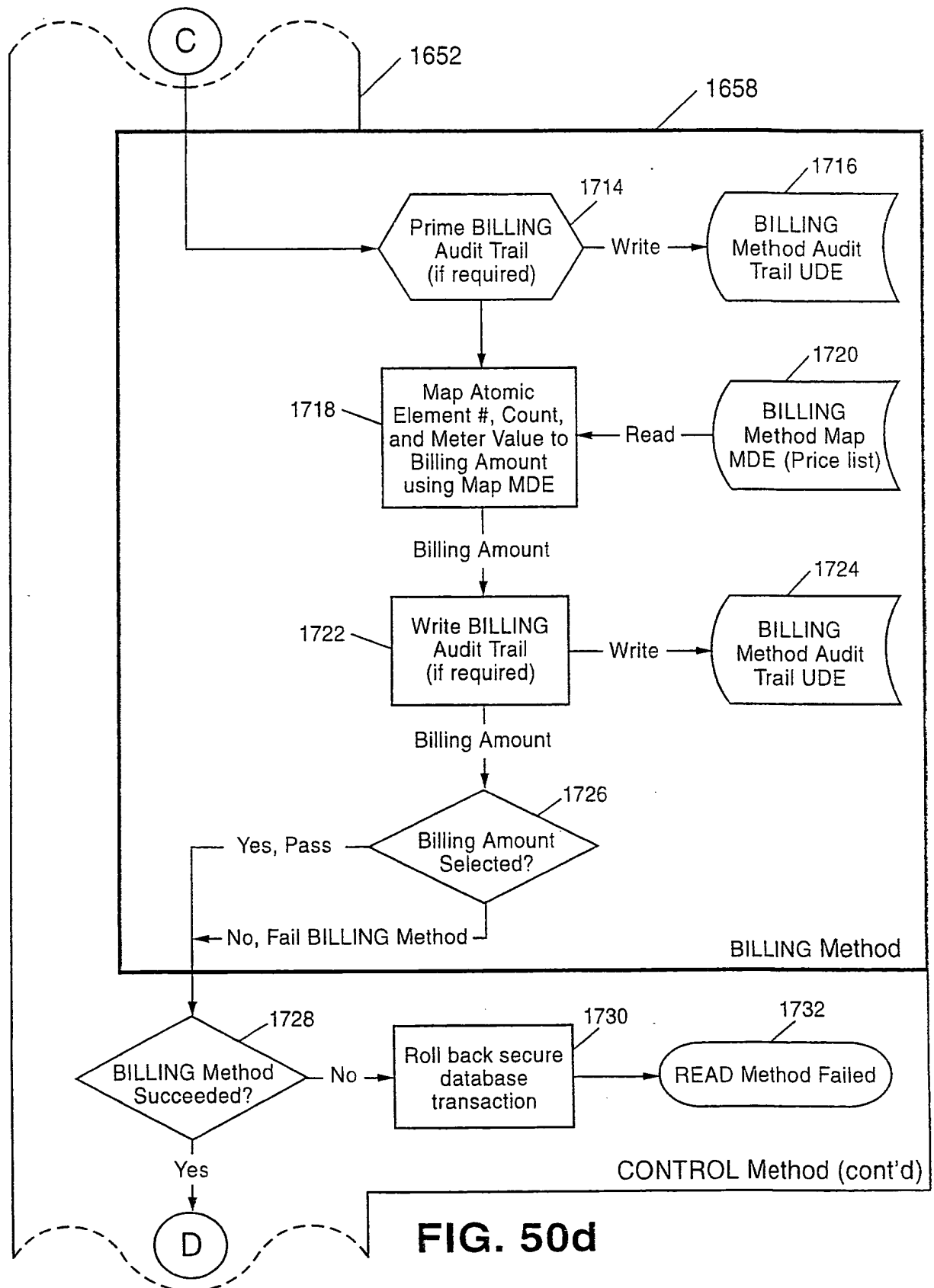


FIG. 50d

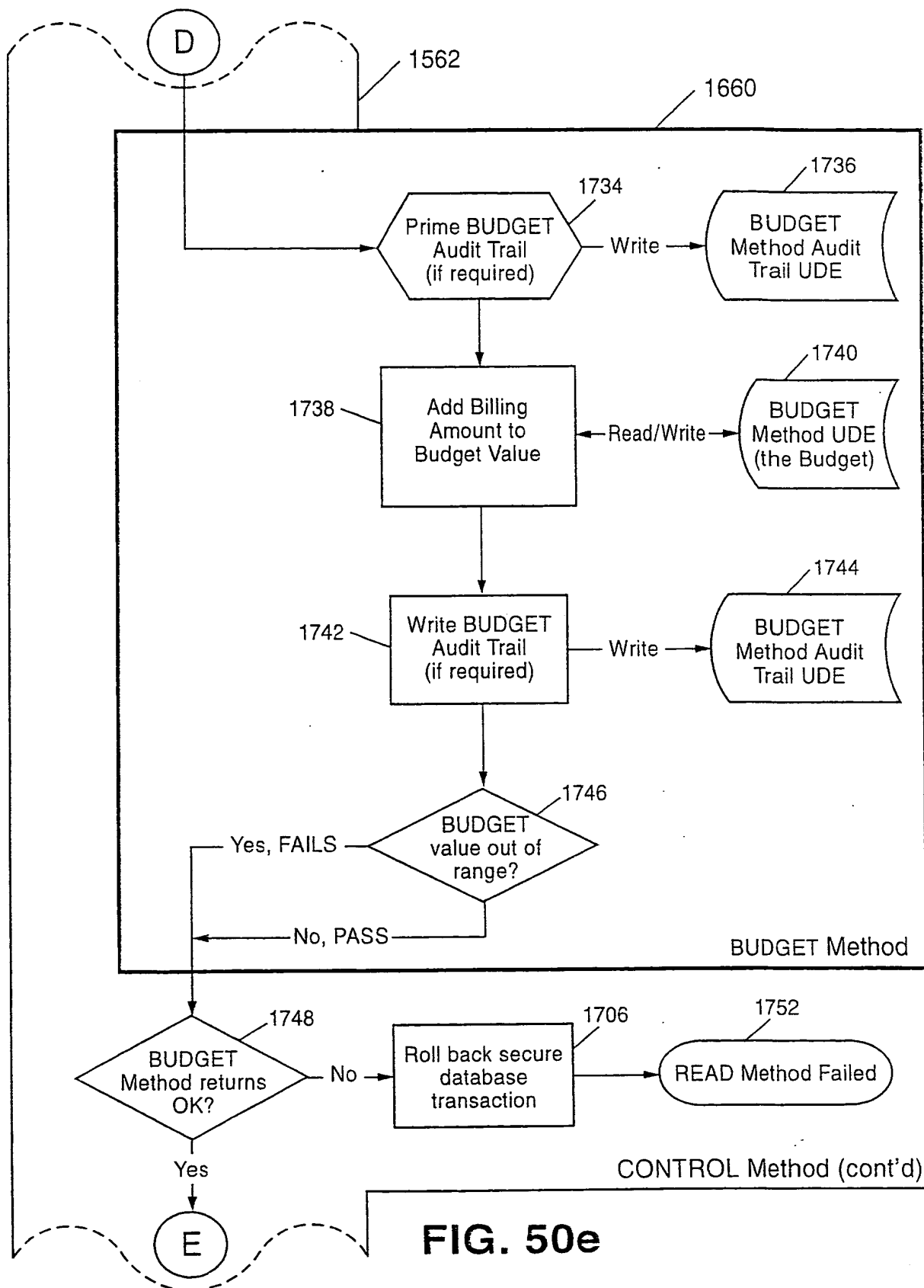
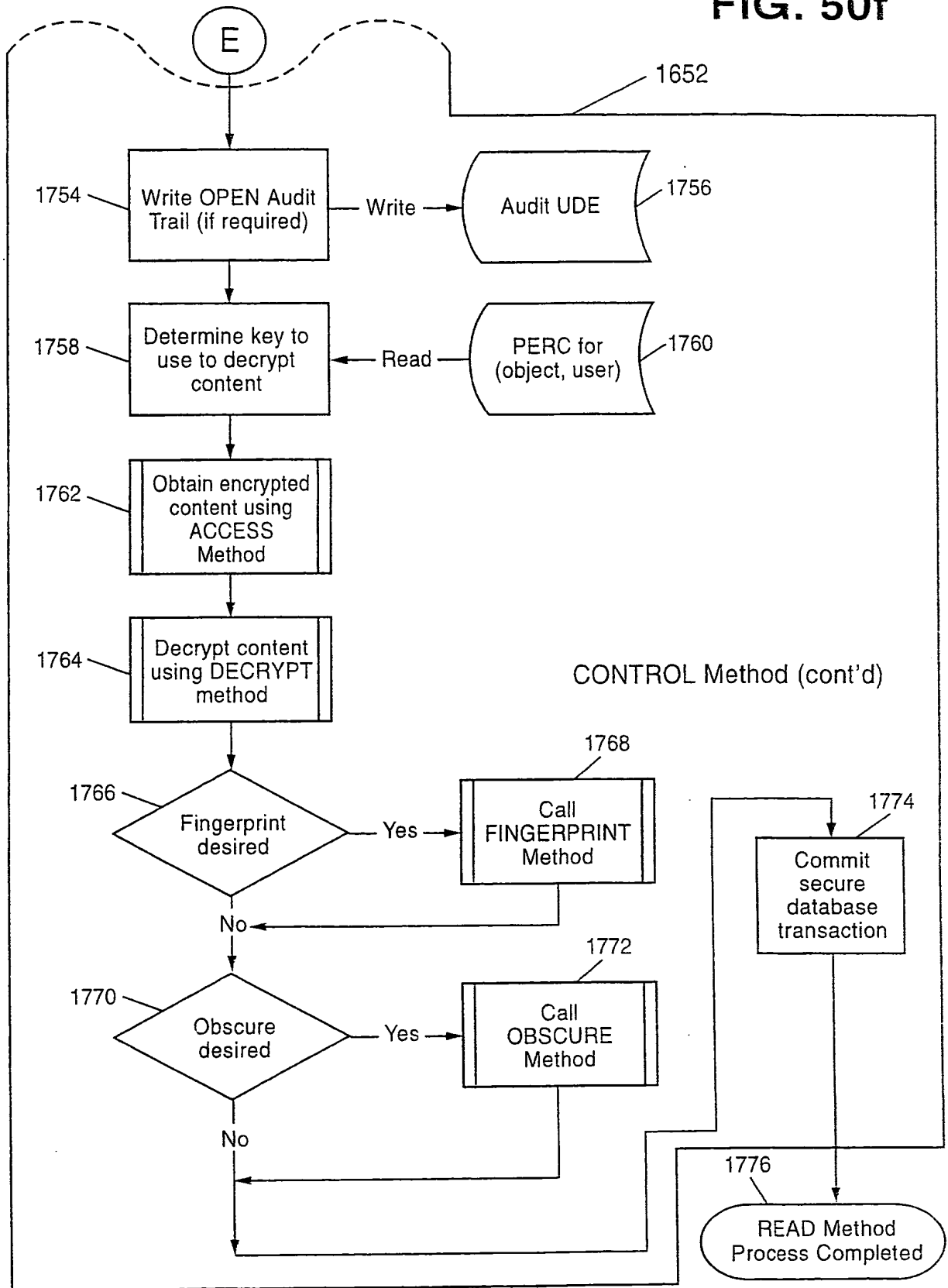
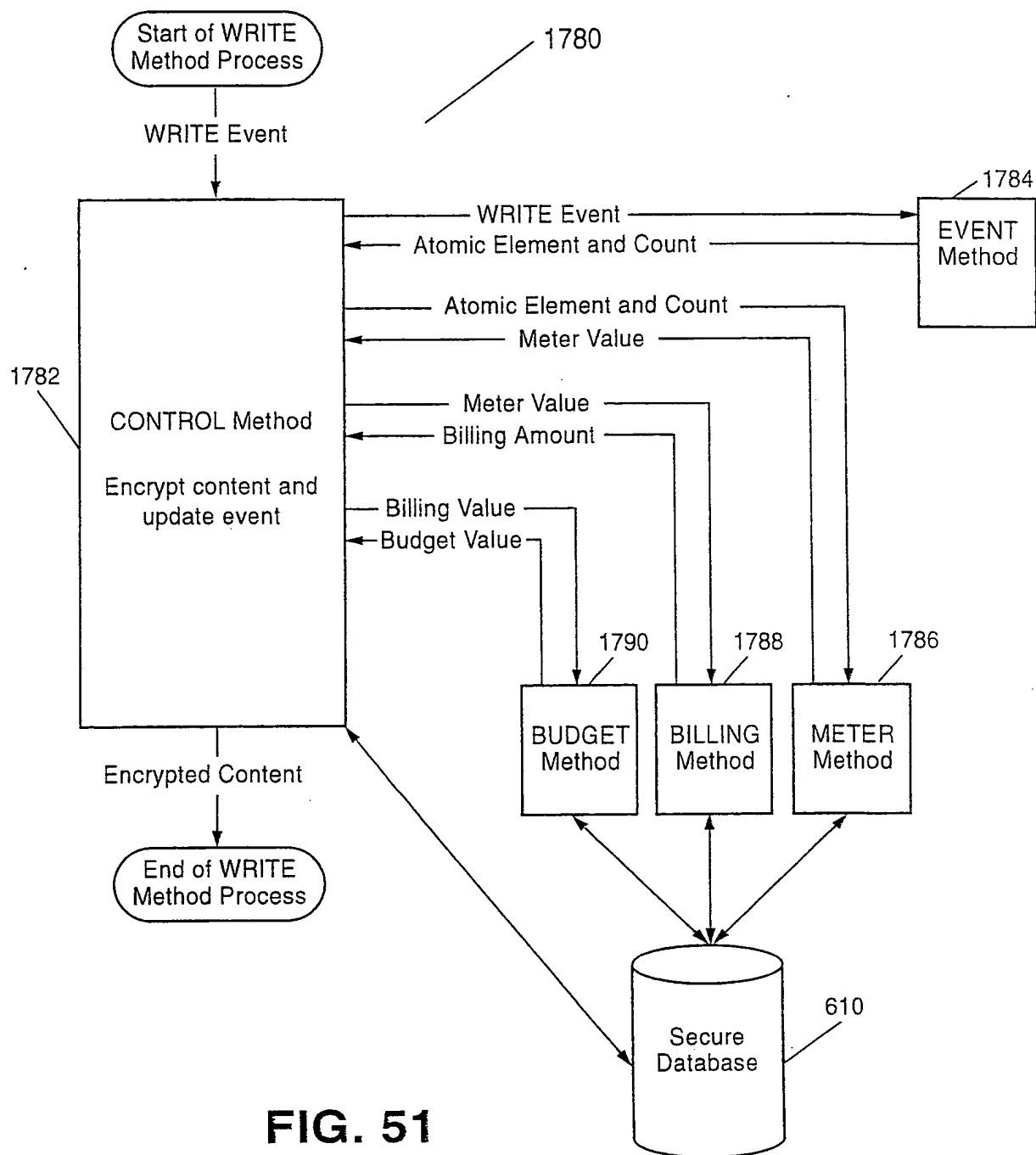


FIG. 50e

FIG. 50f





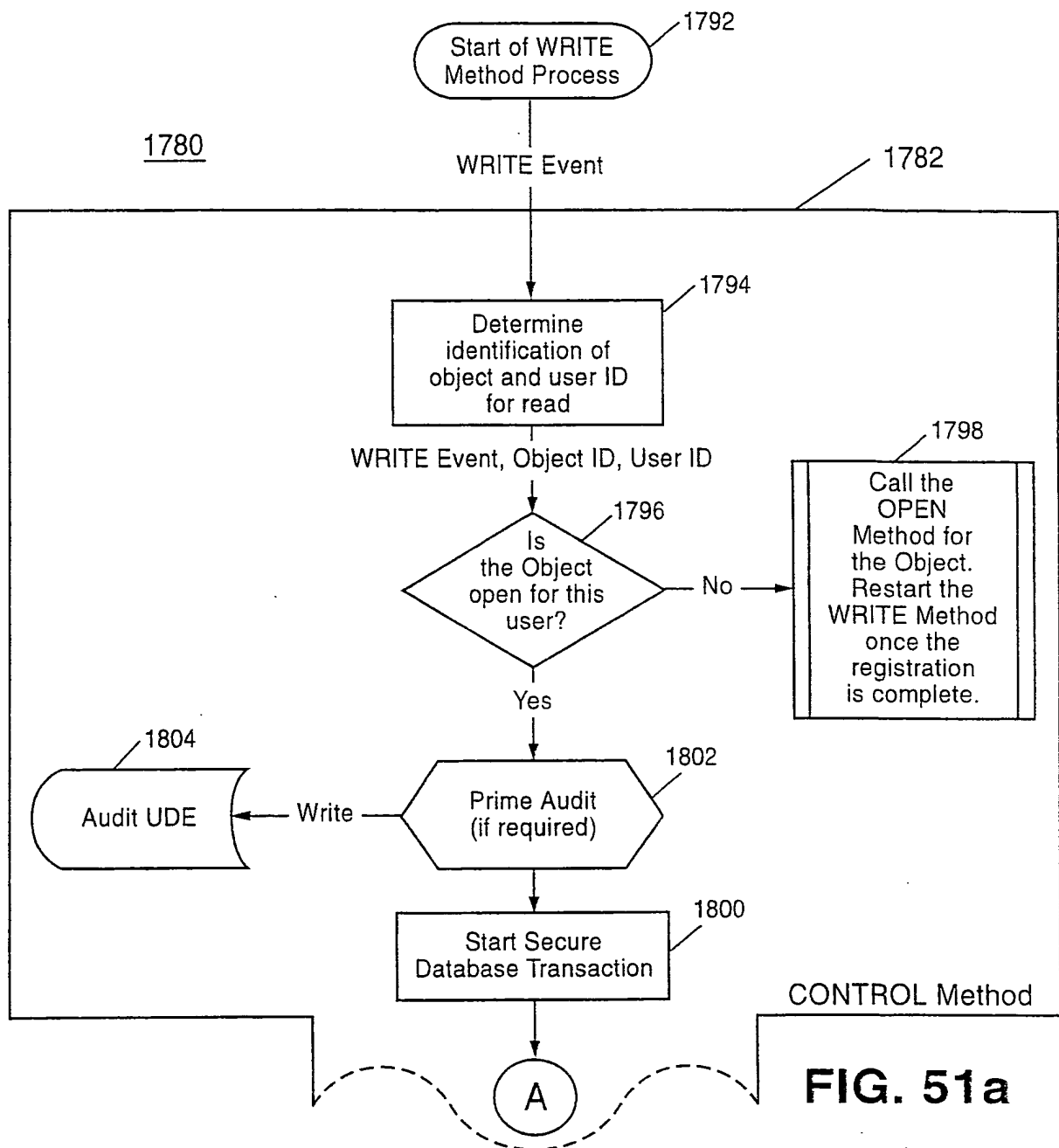
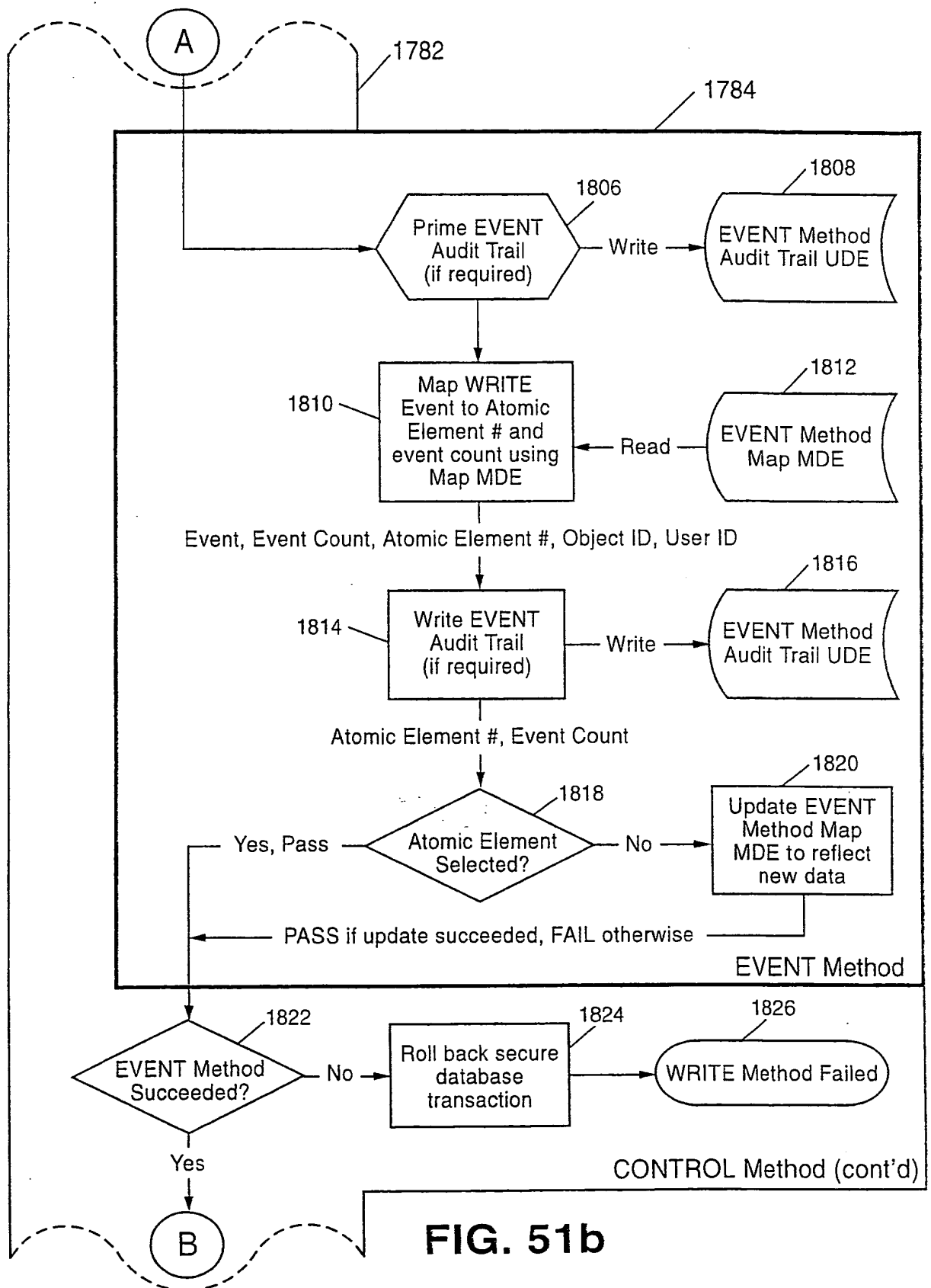


FIG. 51a



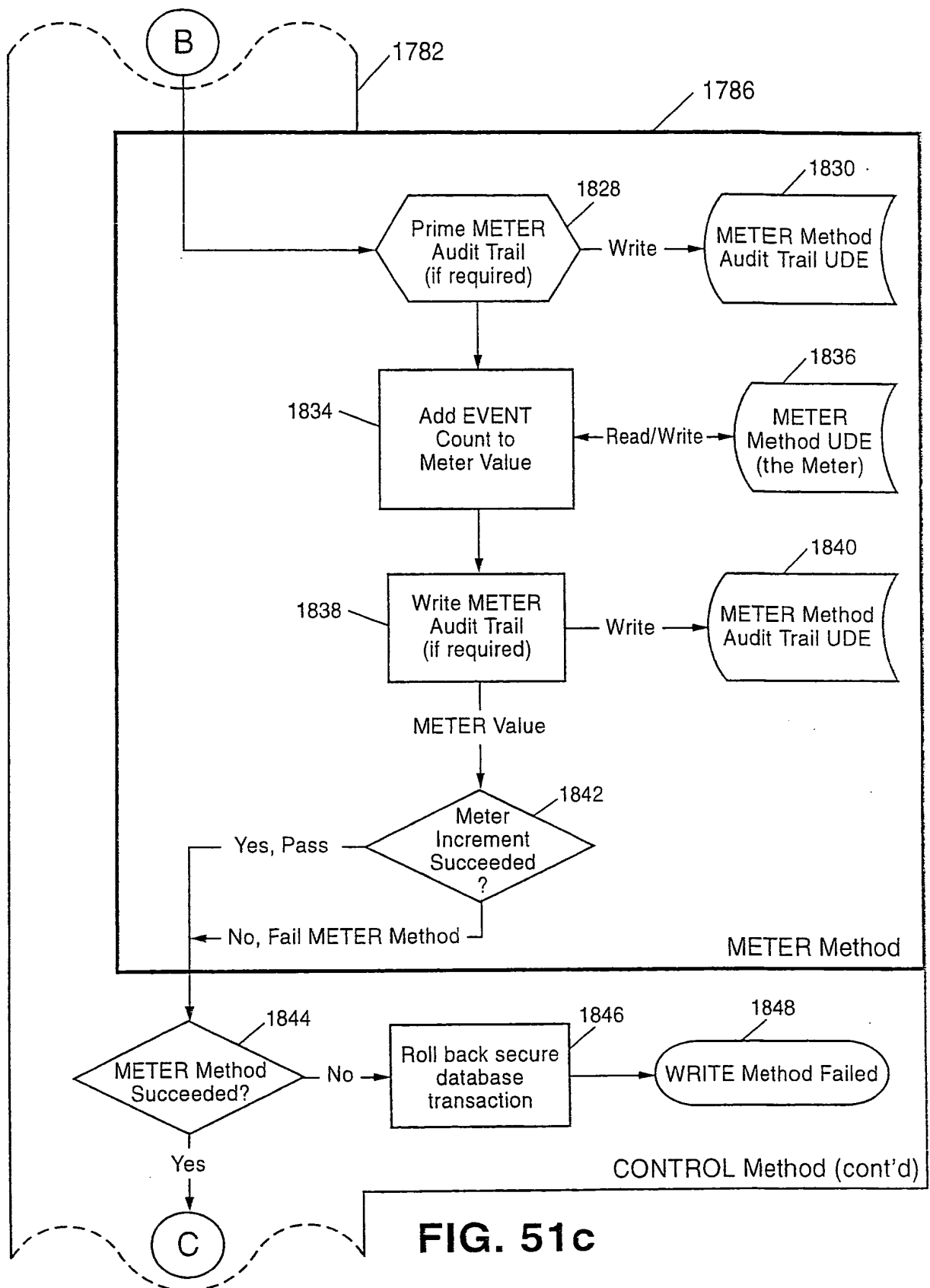


FIG. 51c

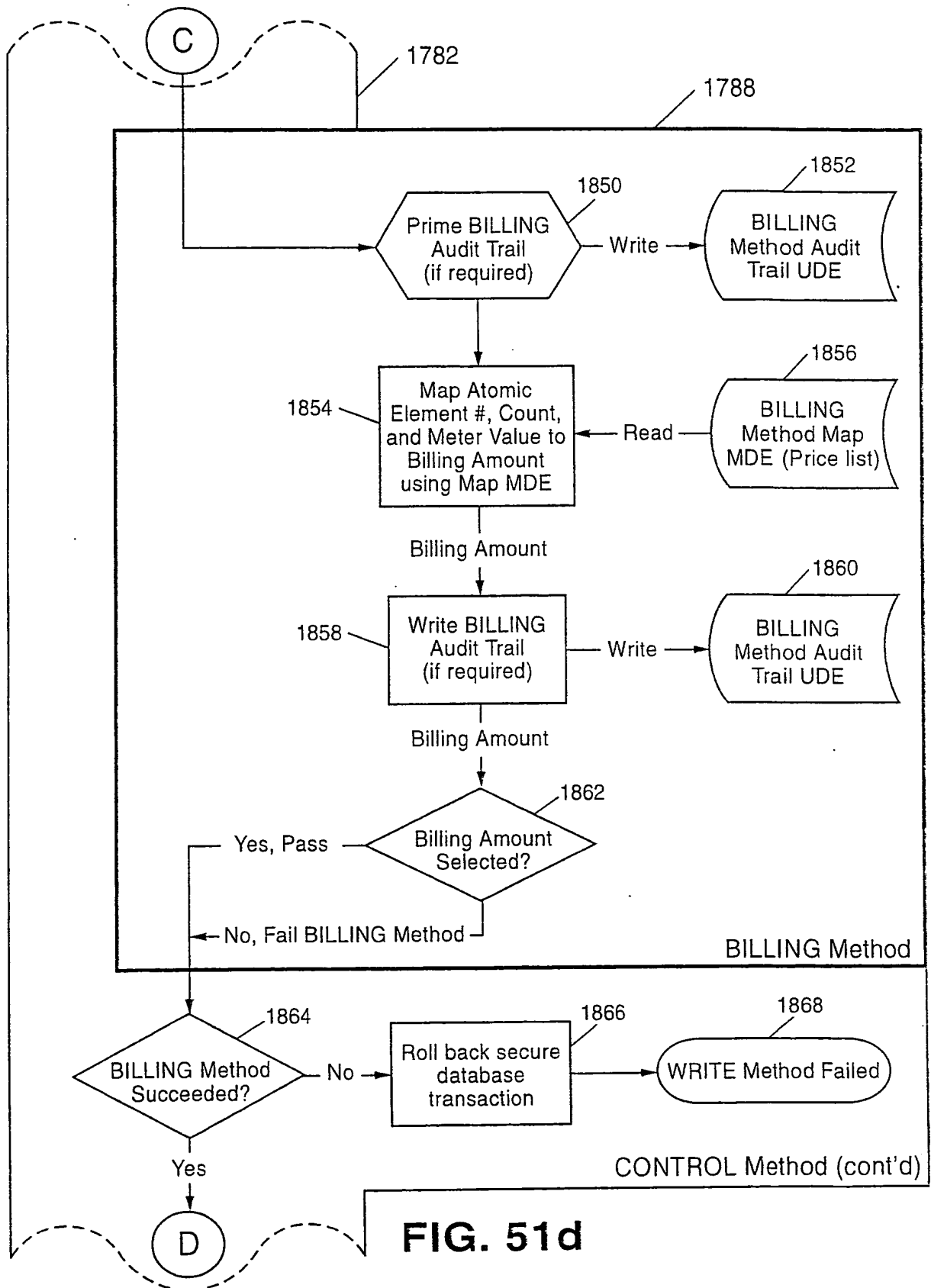
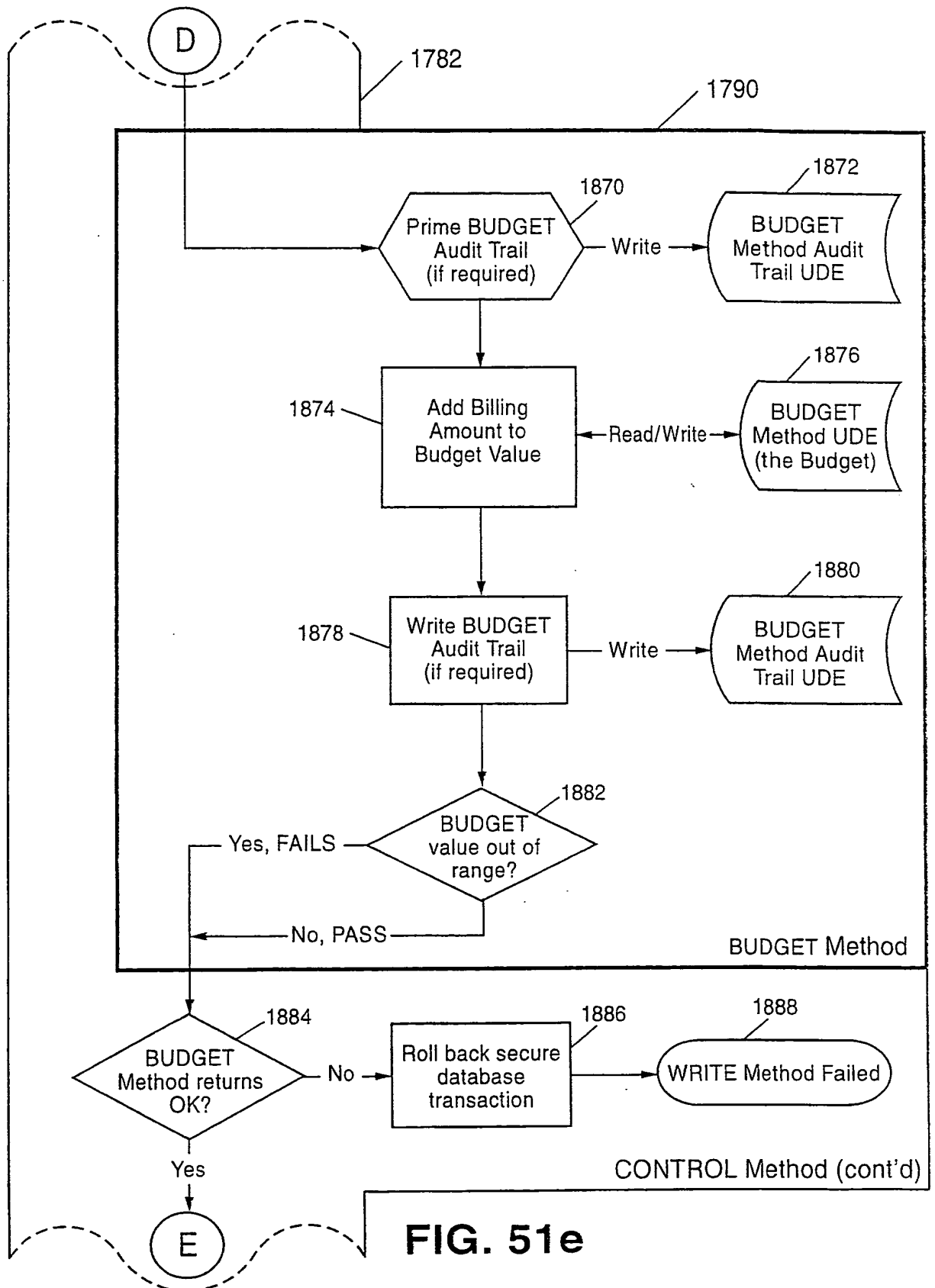
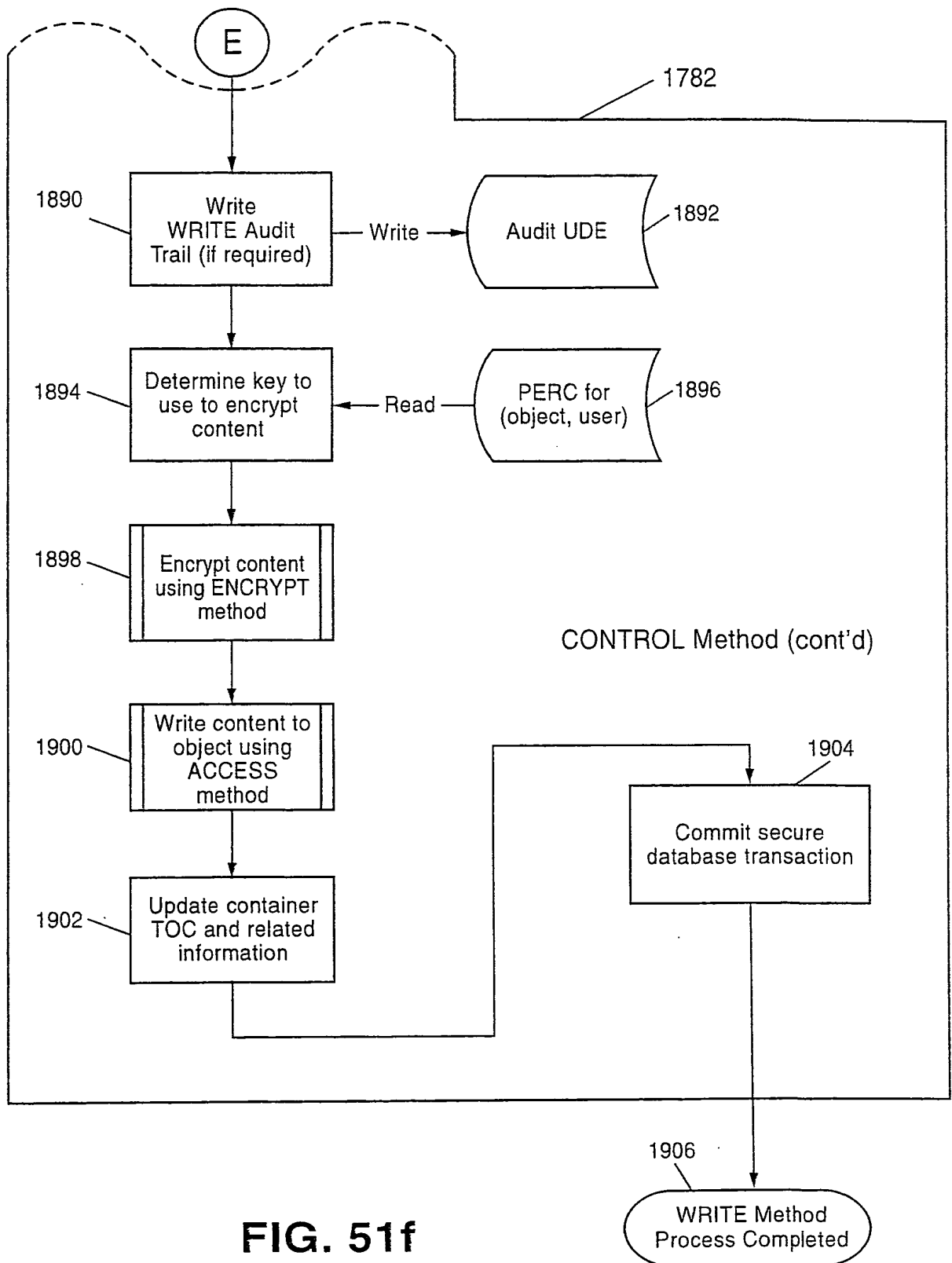


FIG. 51d





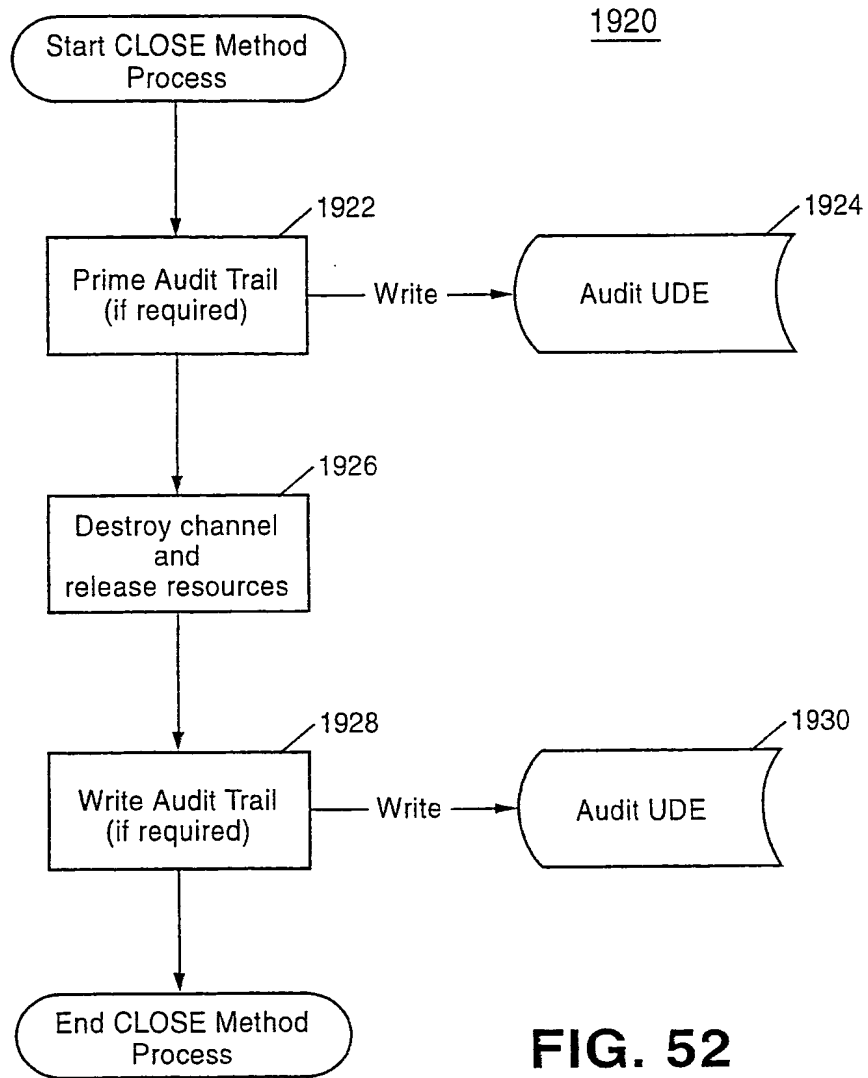


FIG. 52

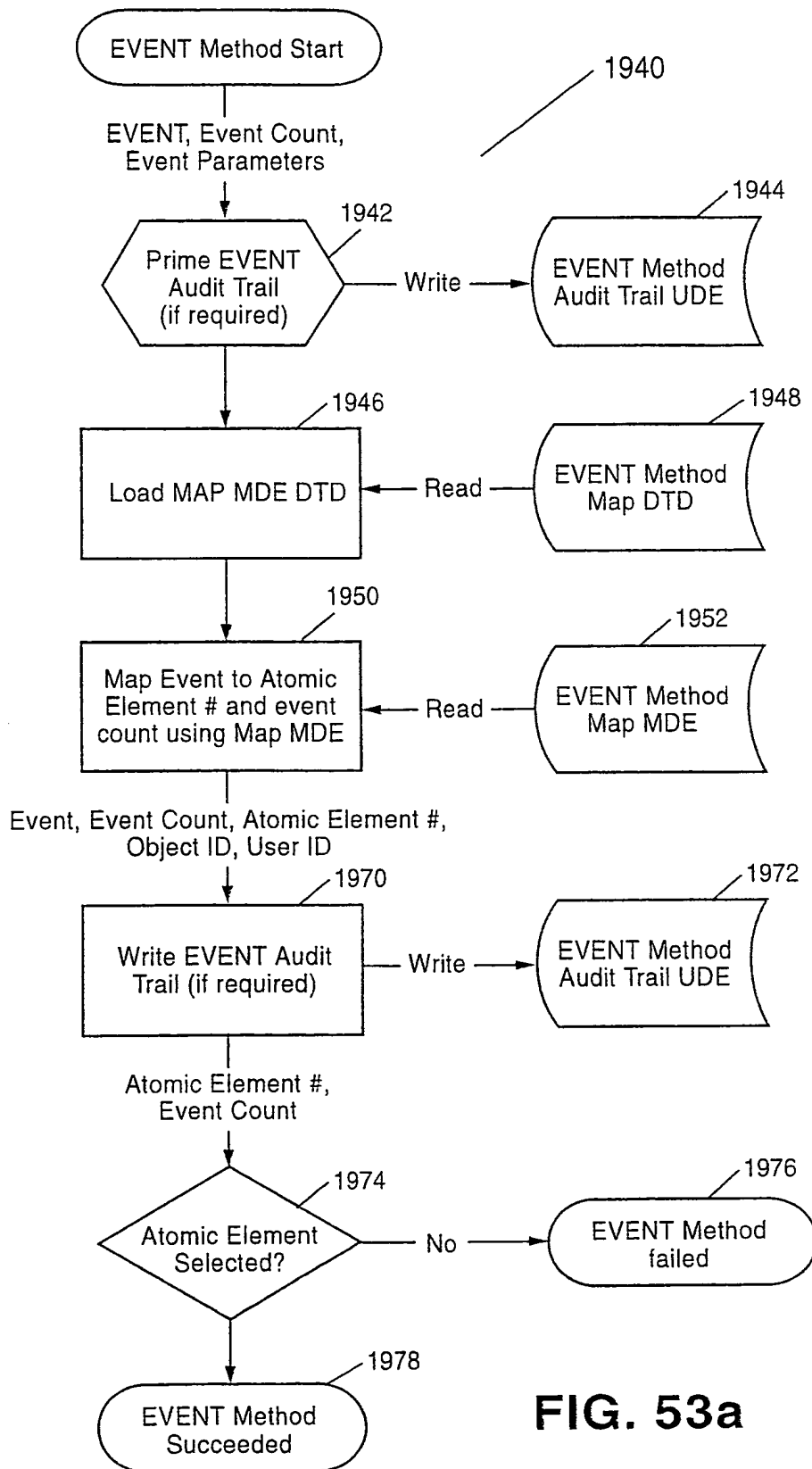


FIG. 53a

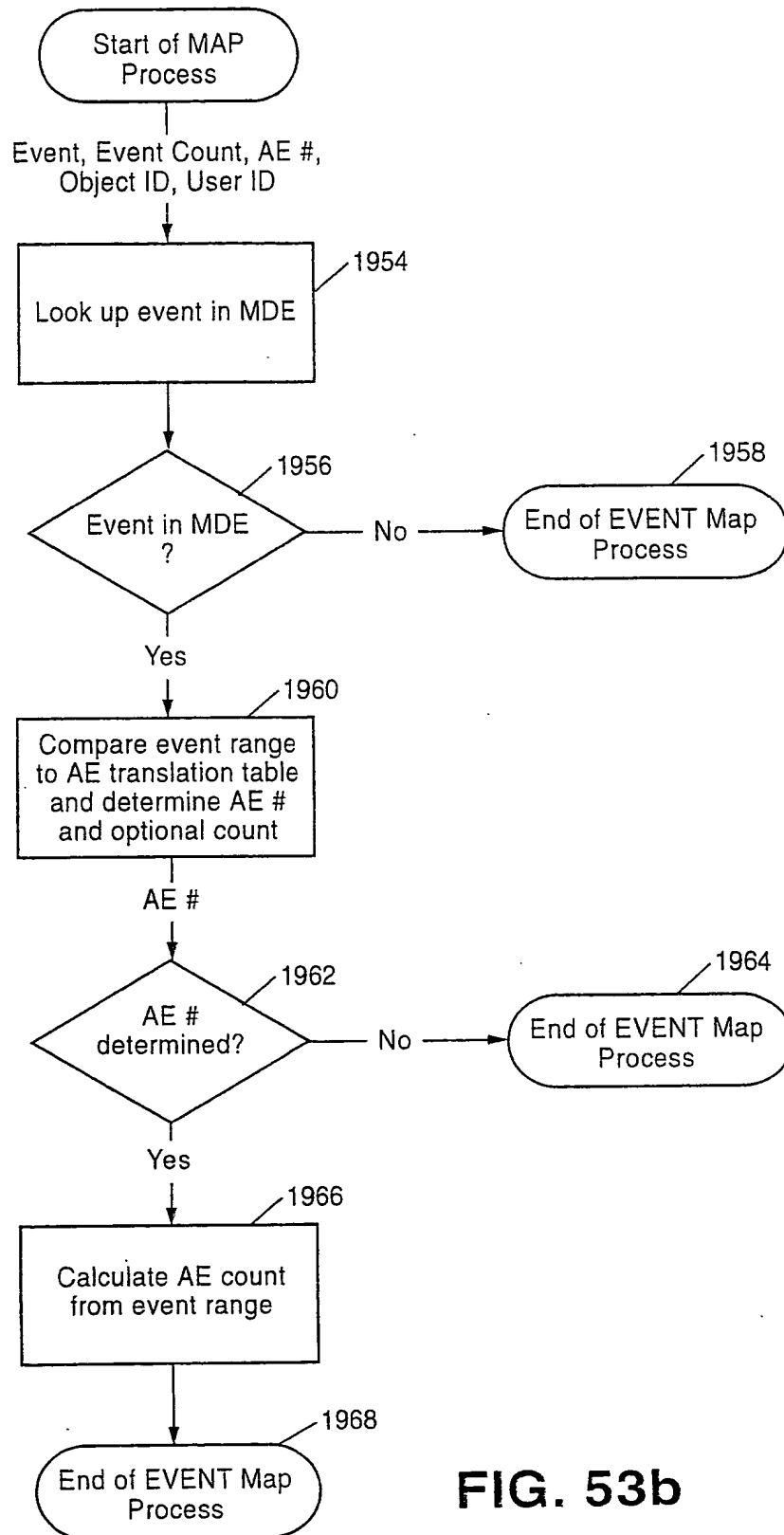


FIG. 53b

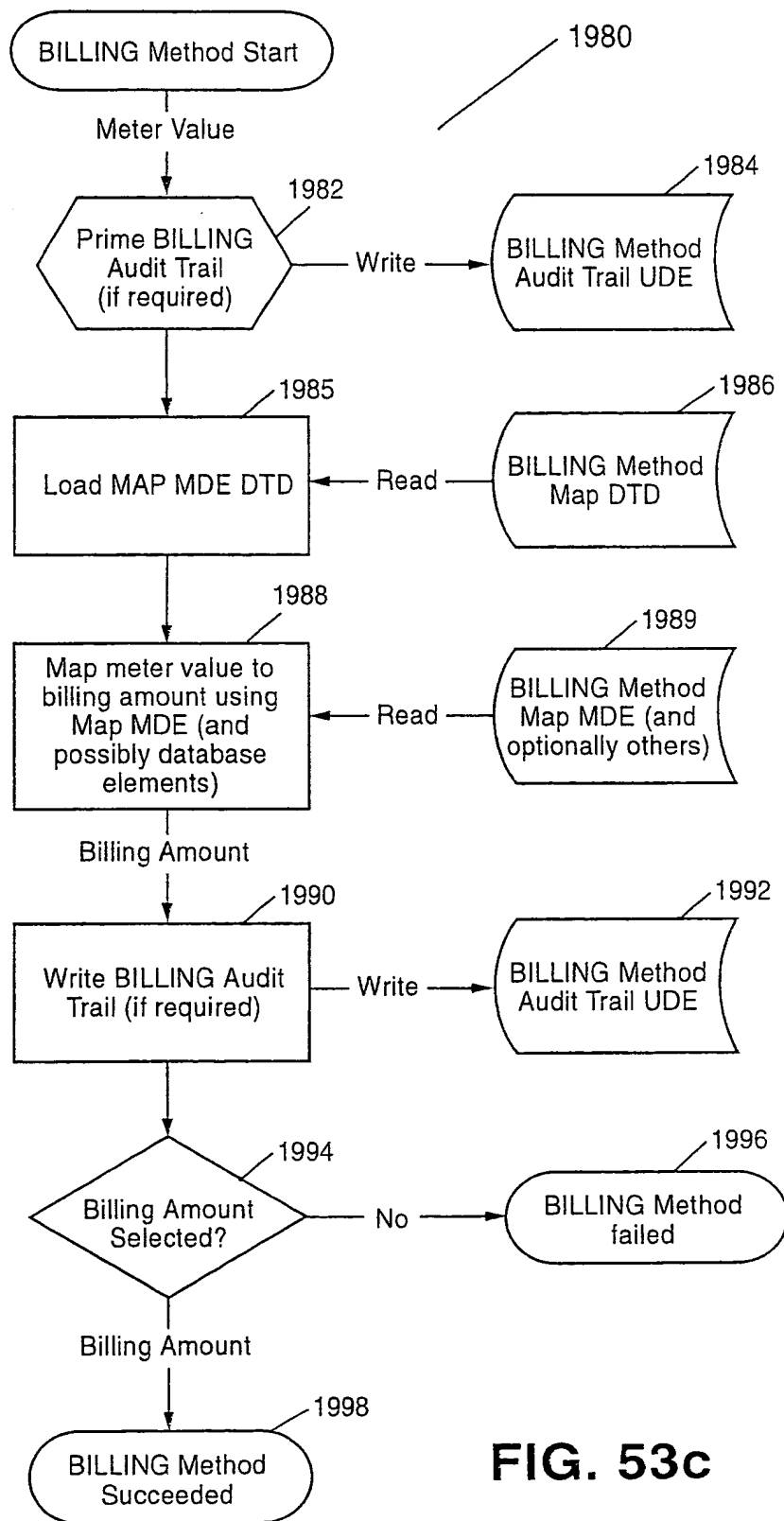


FIG. 53c

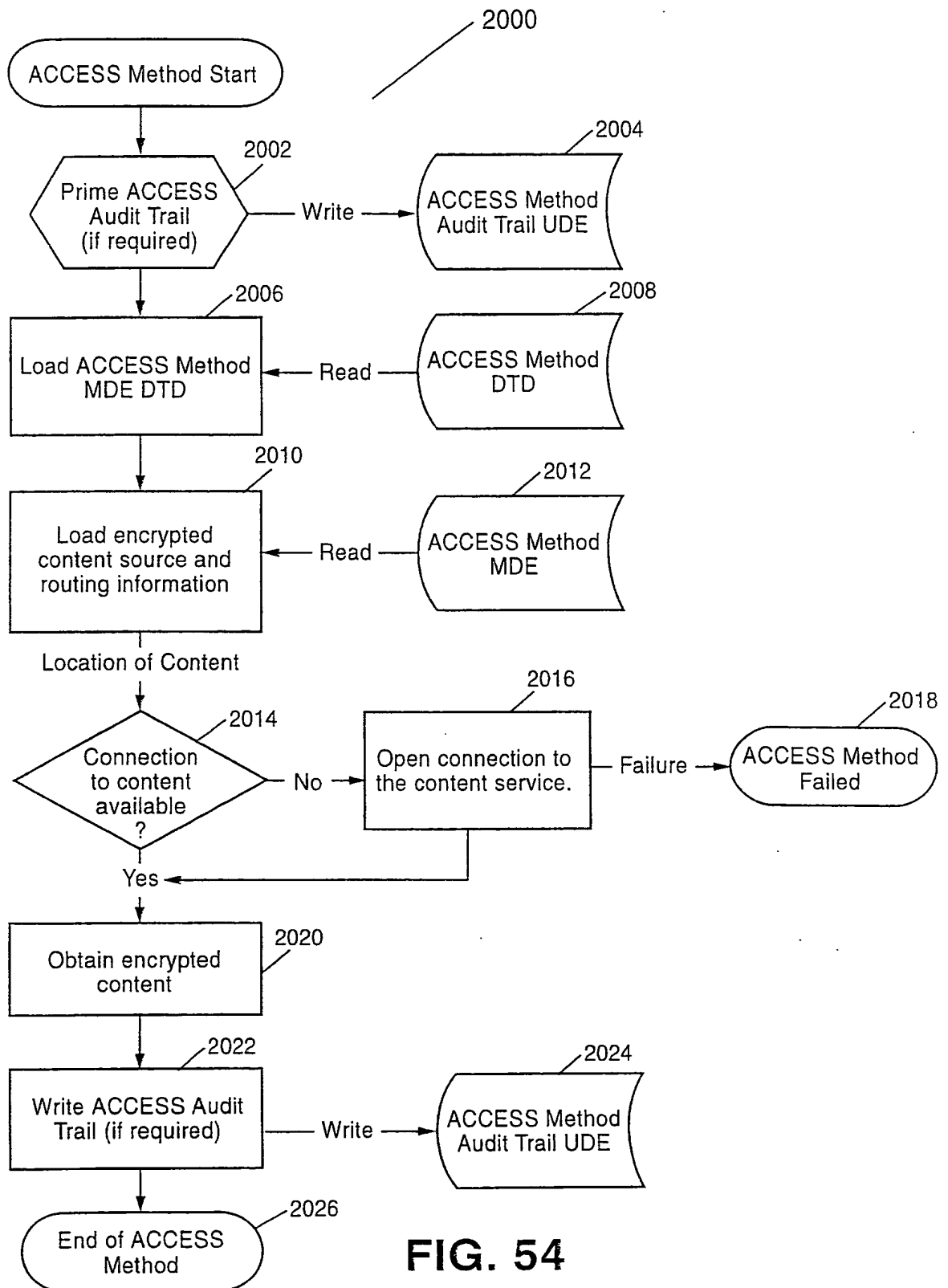


FIG. 54

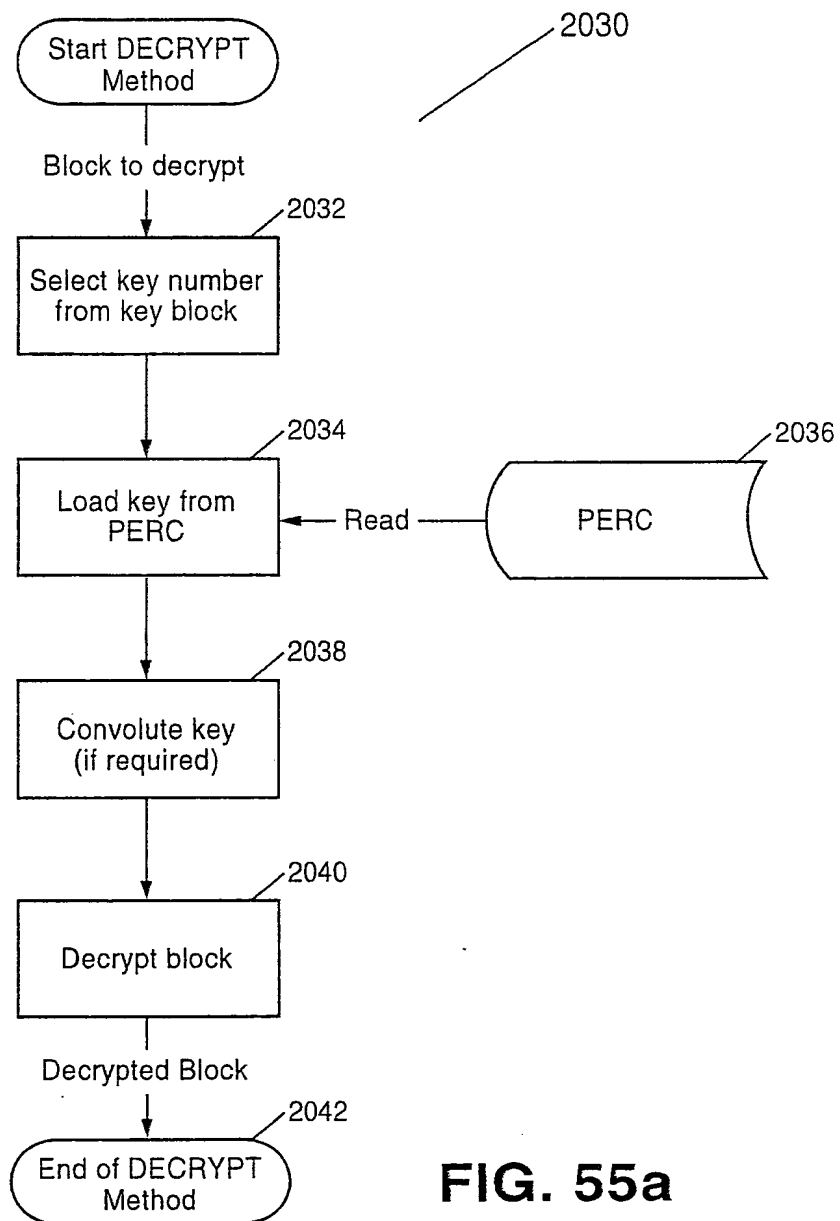


FIG. 55a

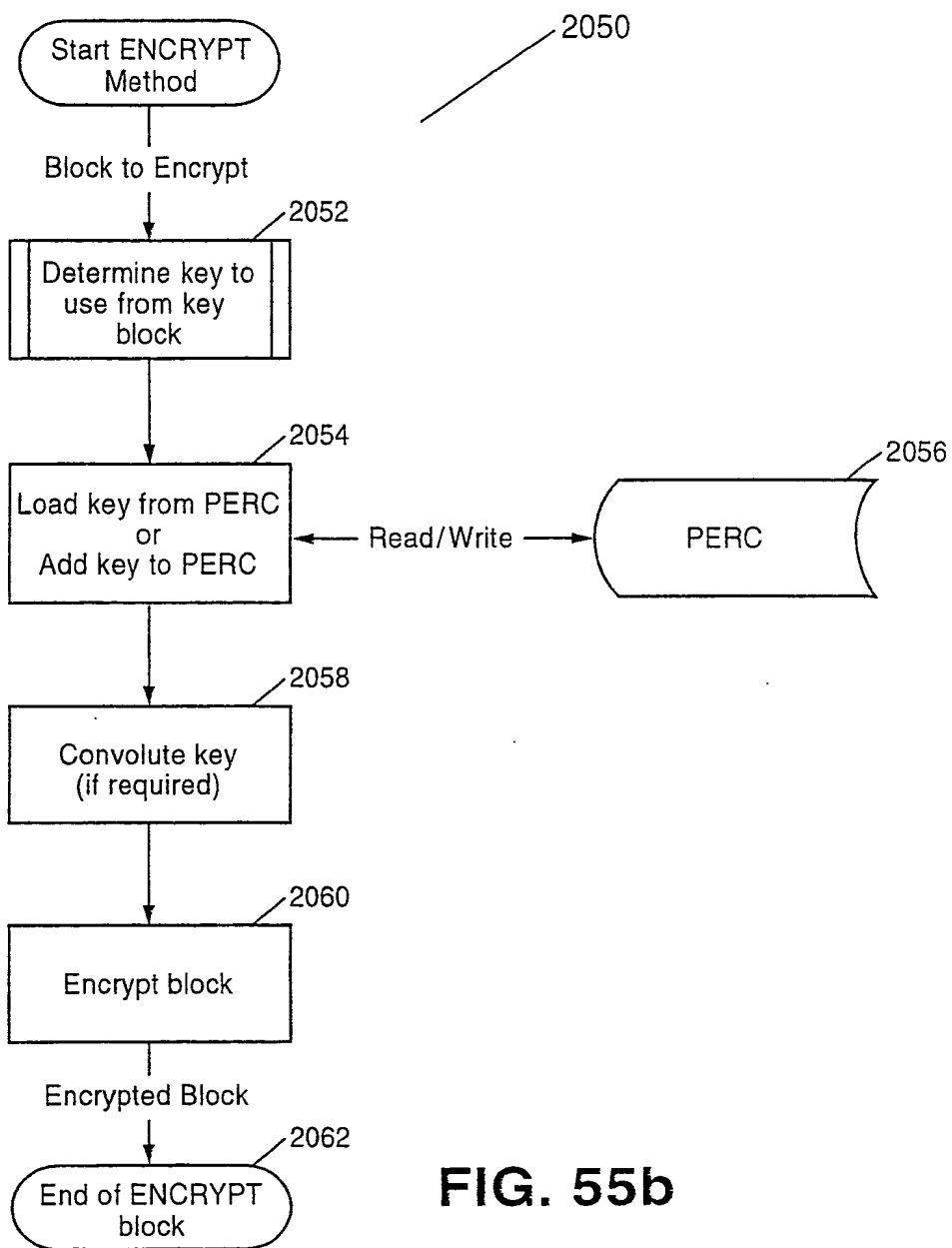


FIG. 55b

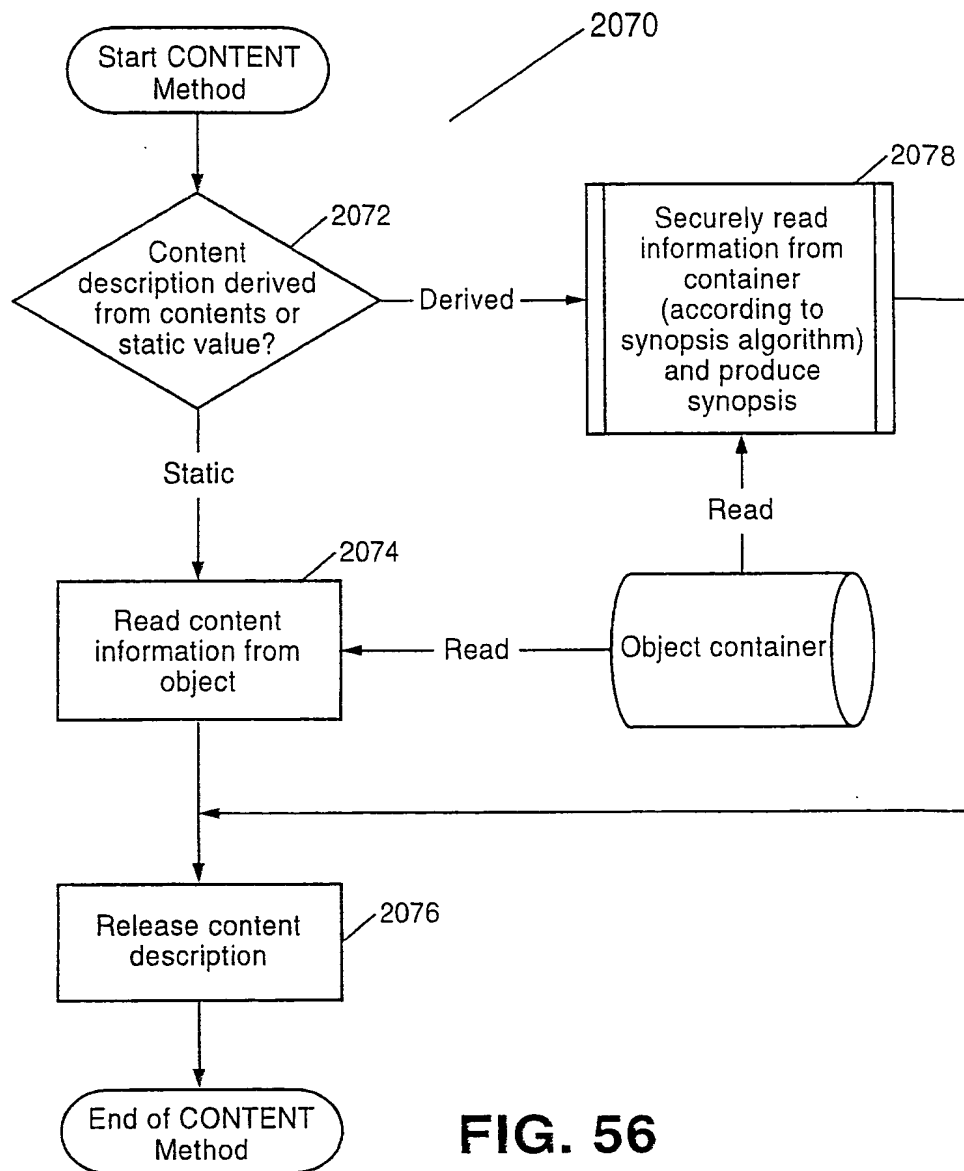


FIG. 56

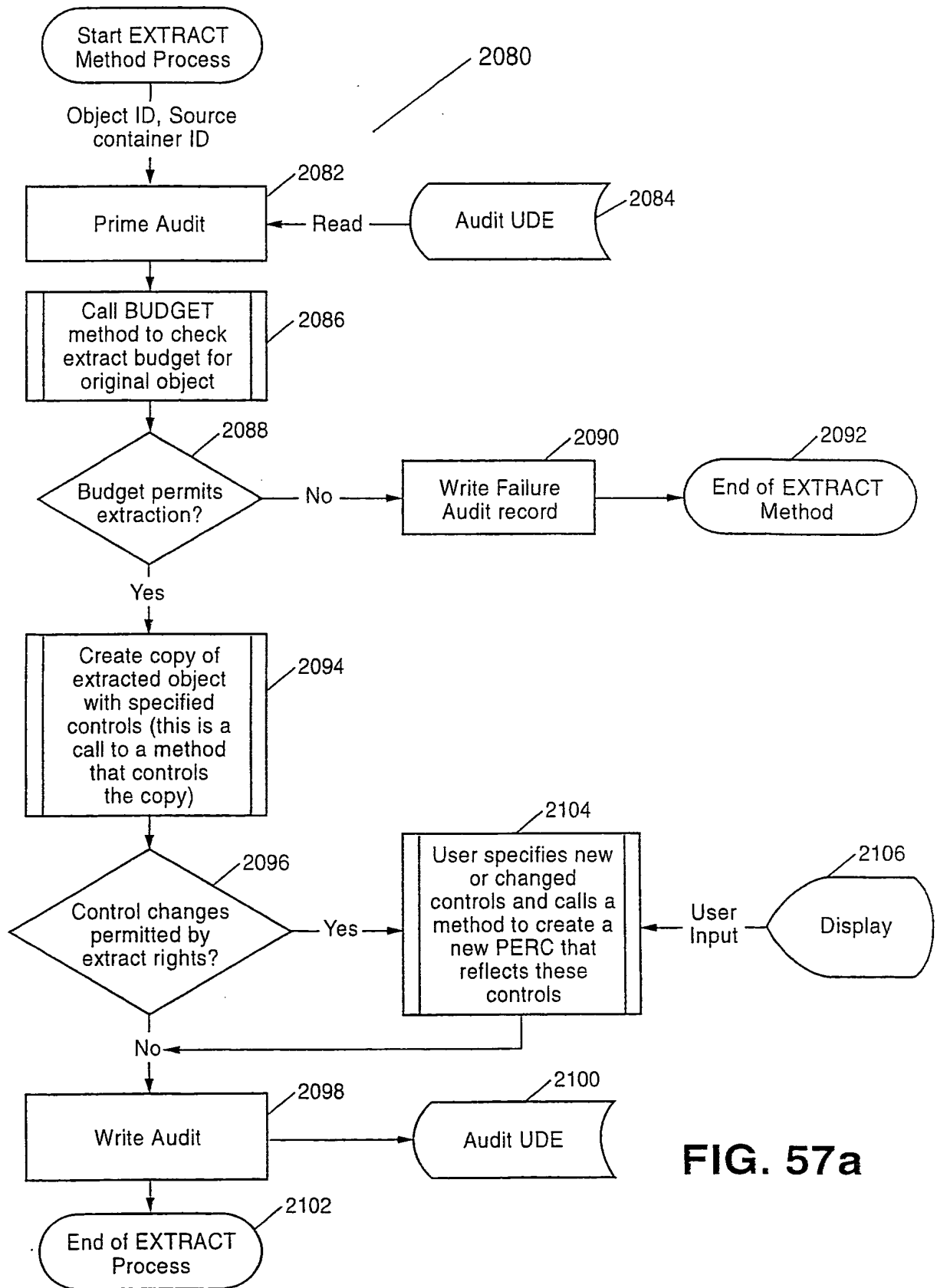


FIG. 57a

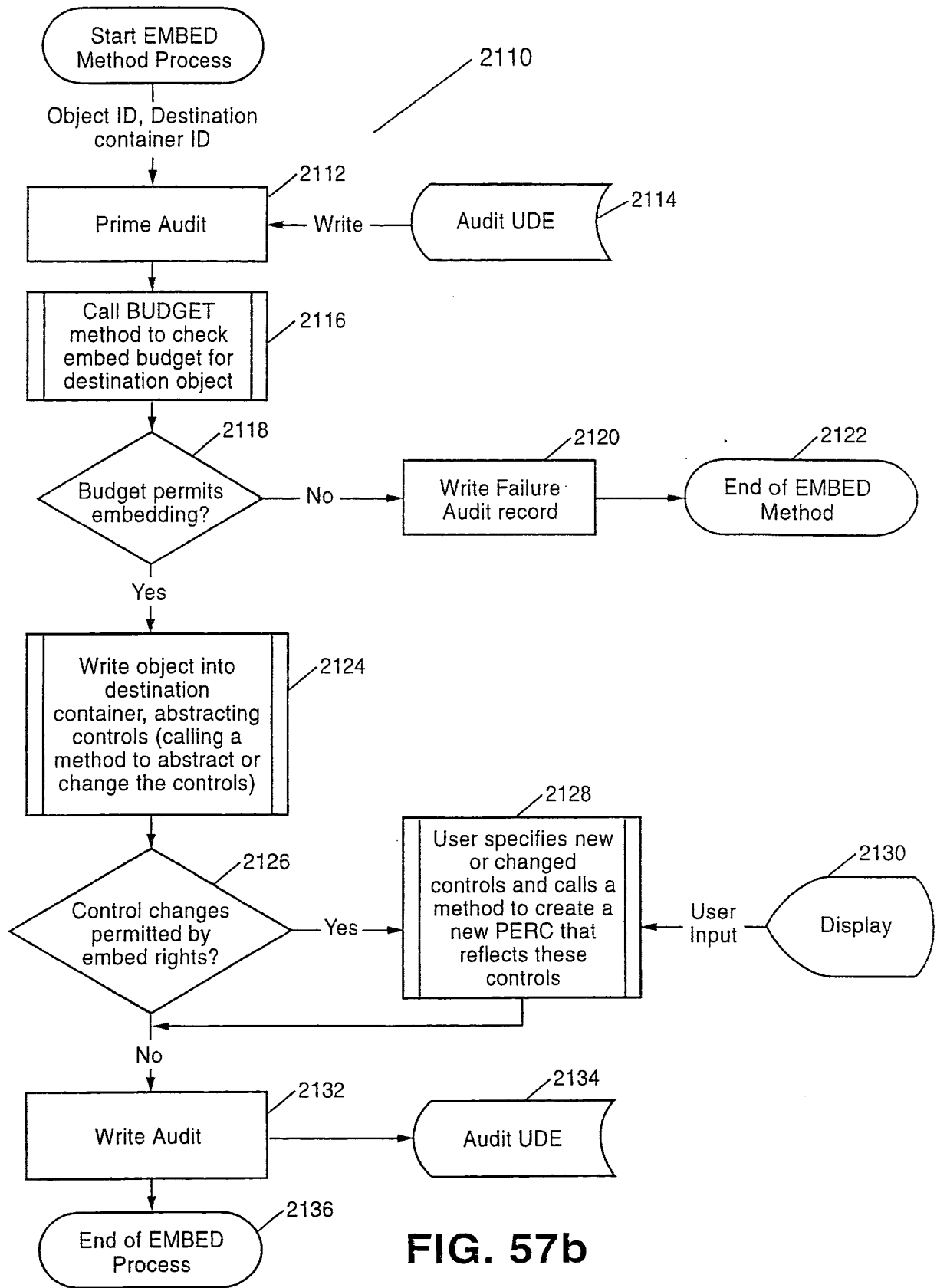


FIG. 57b

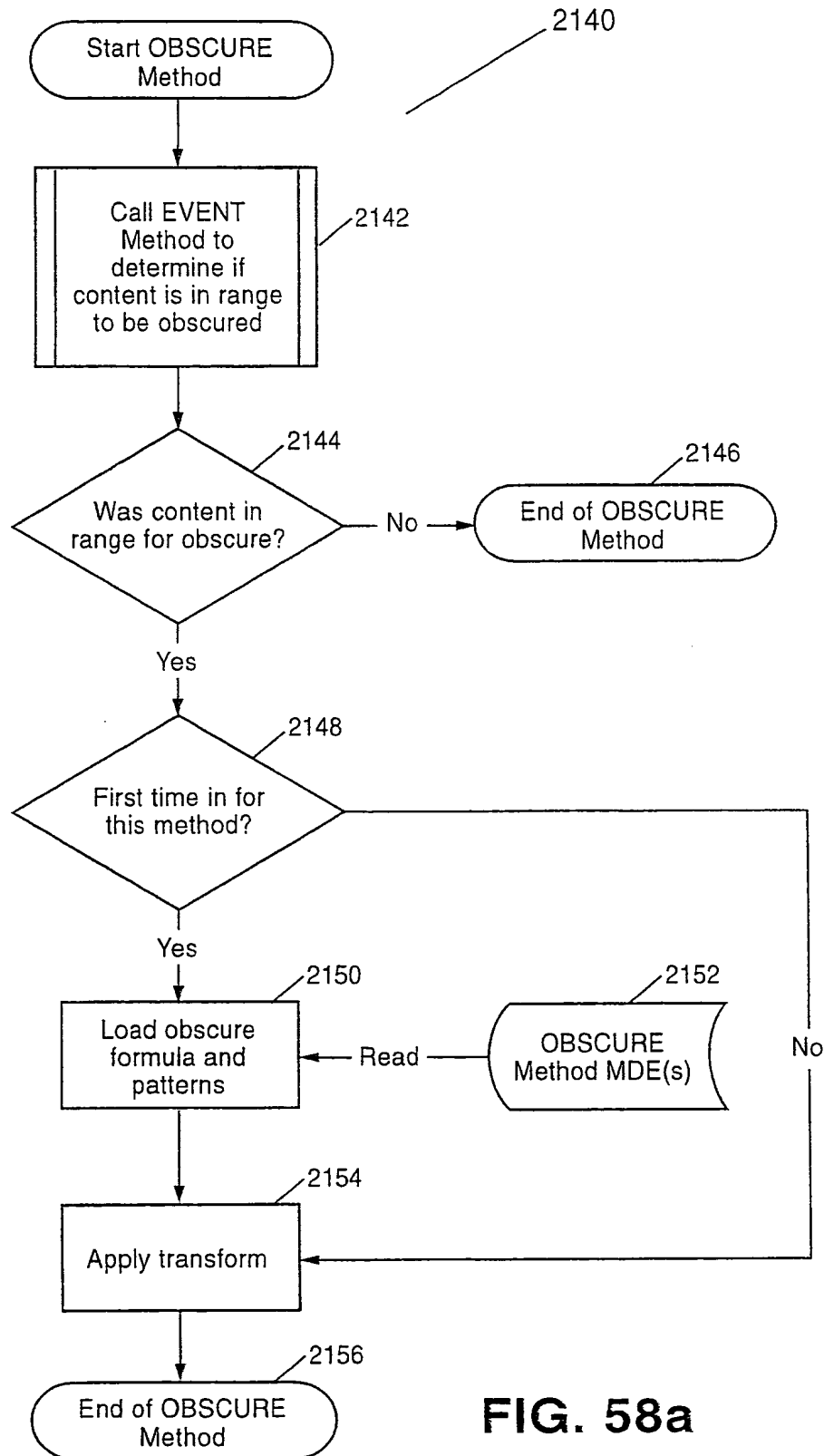


FIG. 58a

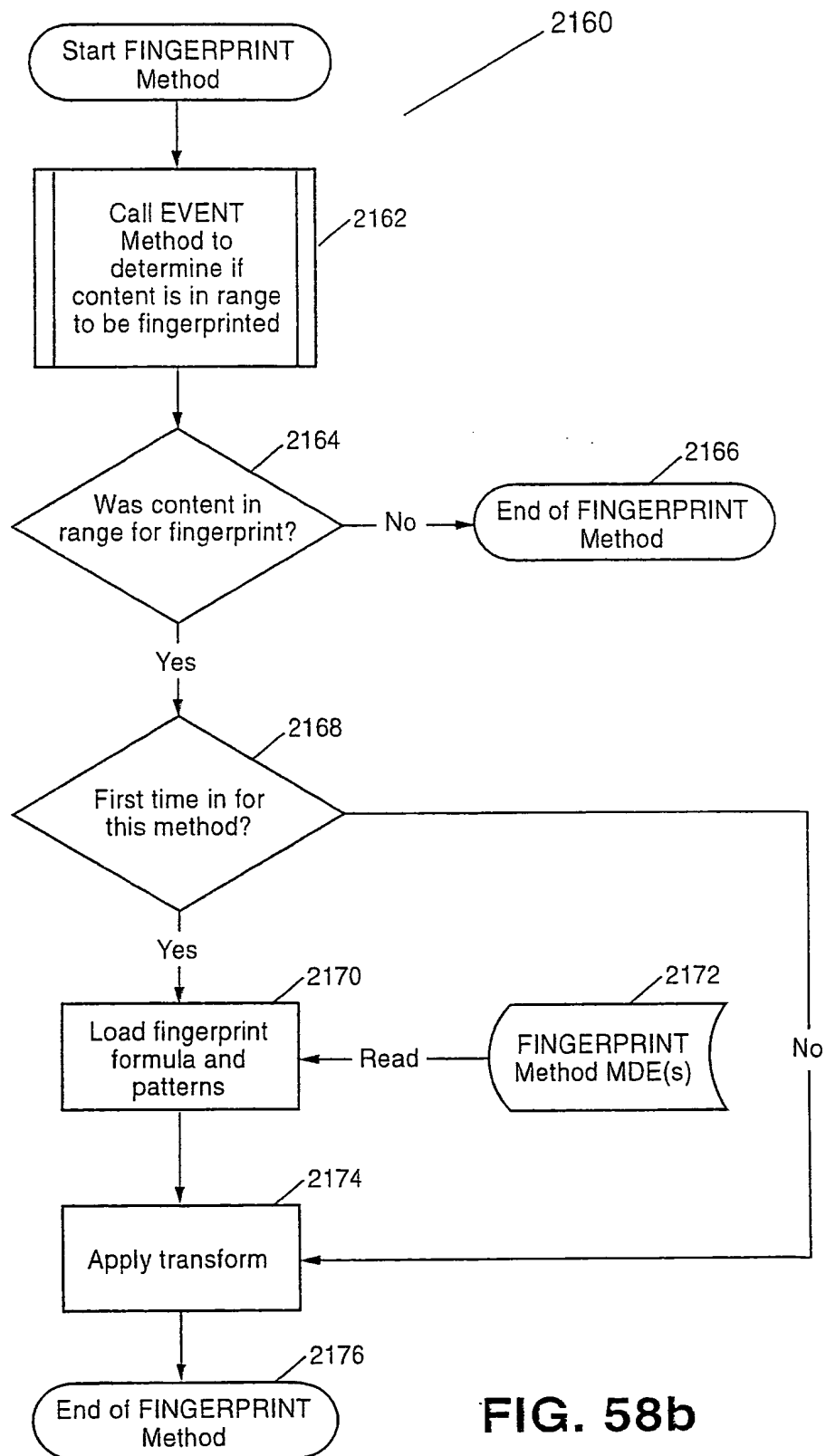


FIG. 58b

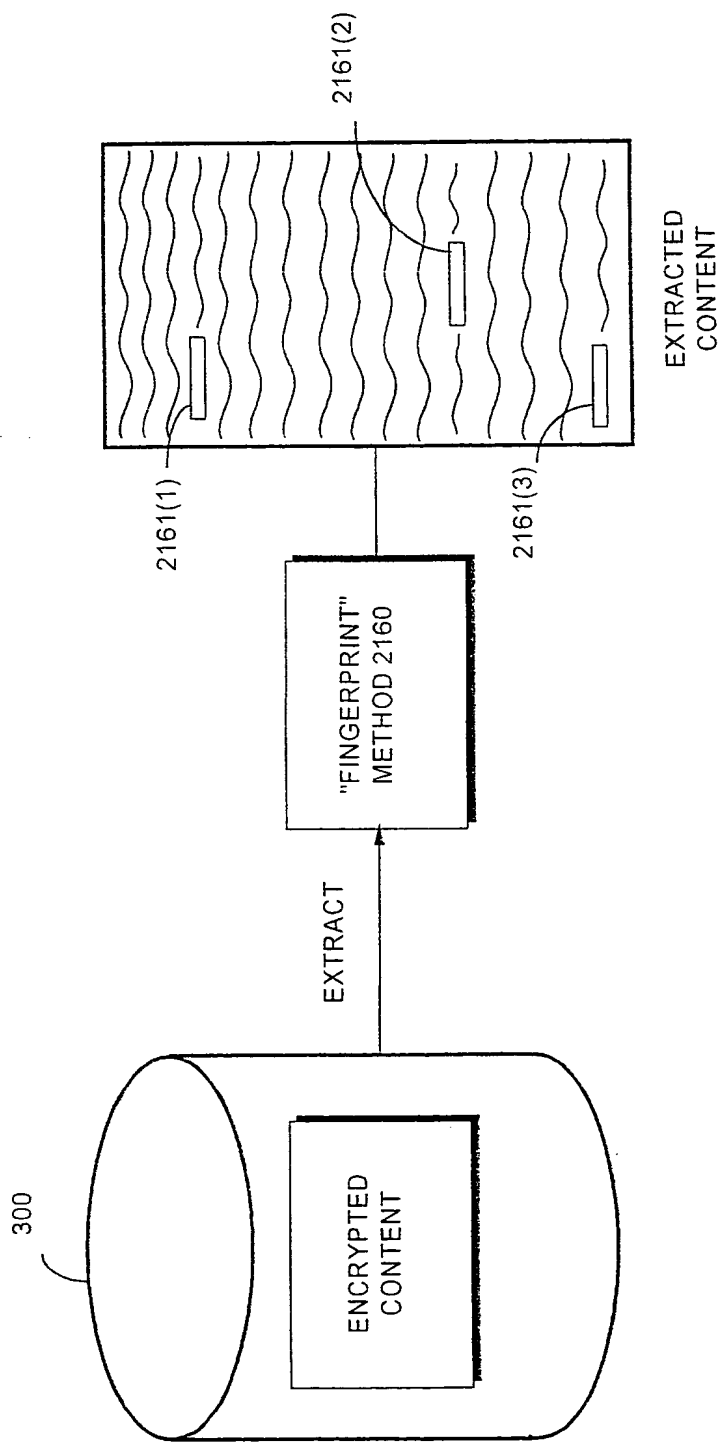


FIG. 58C

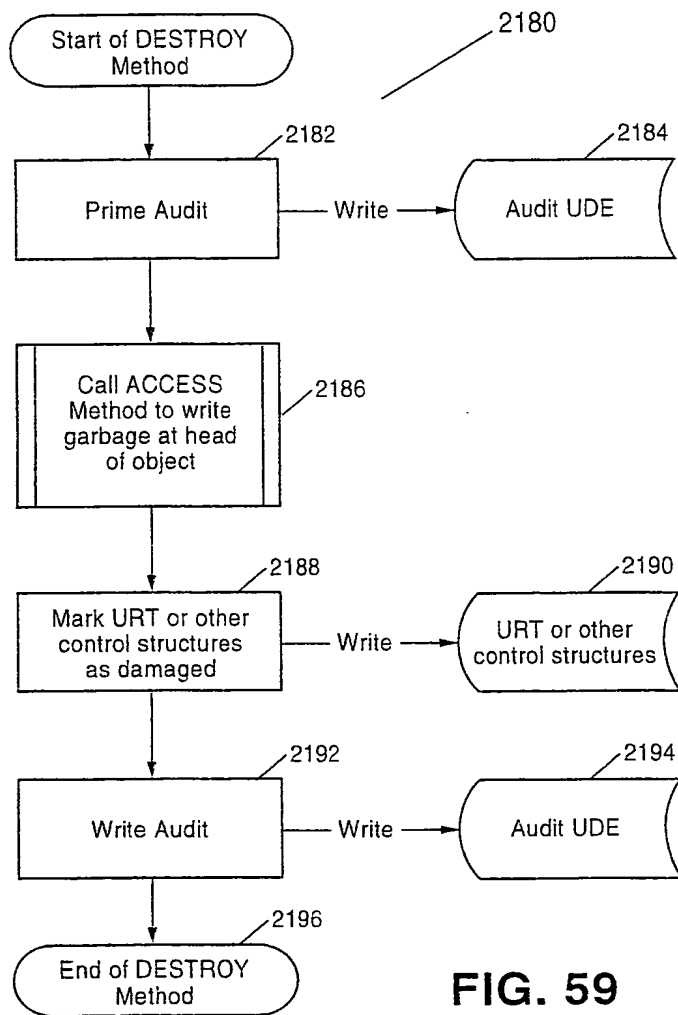


FIG. 59

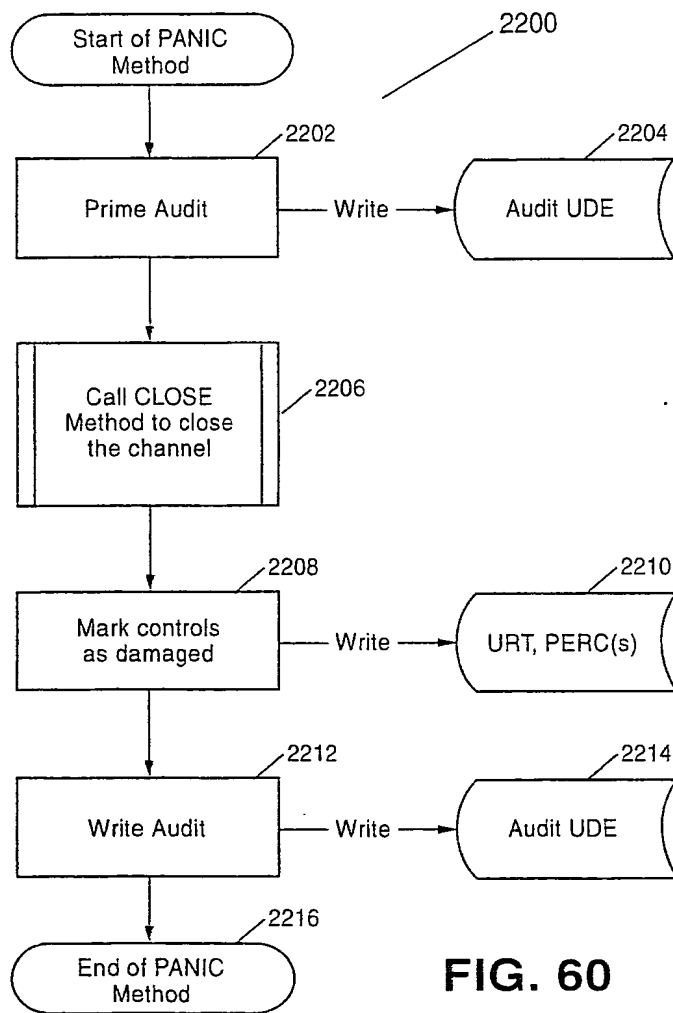


FIG. 60

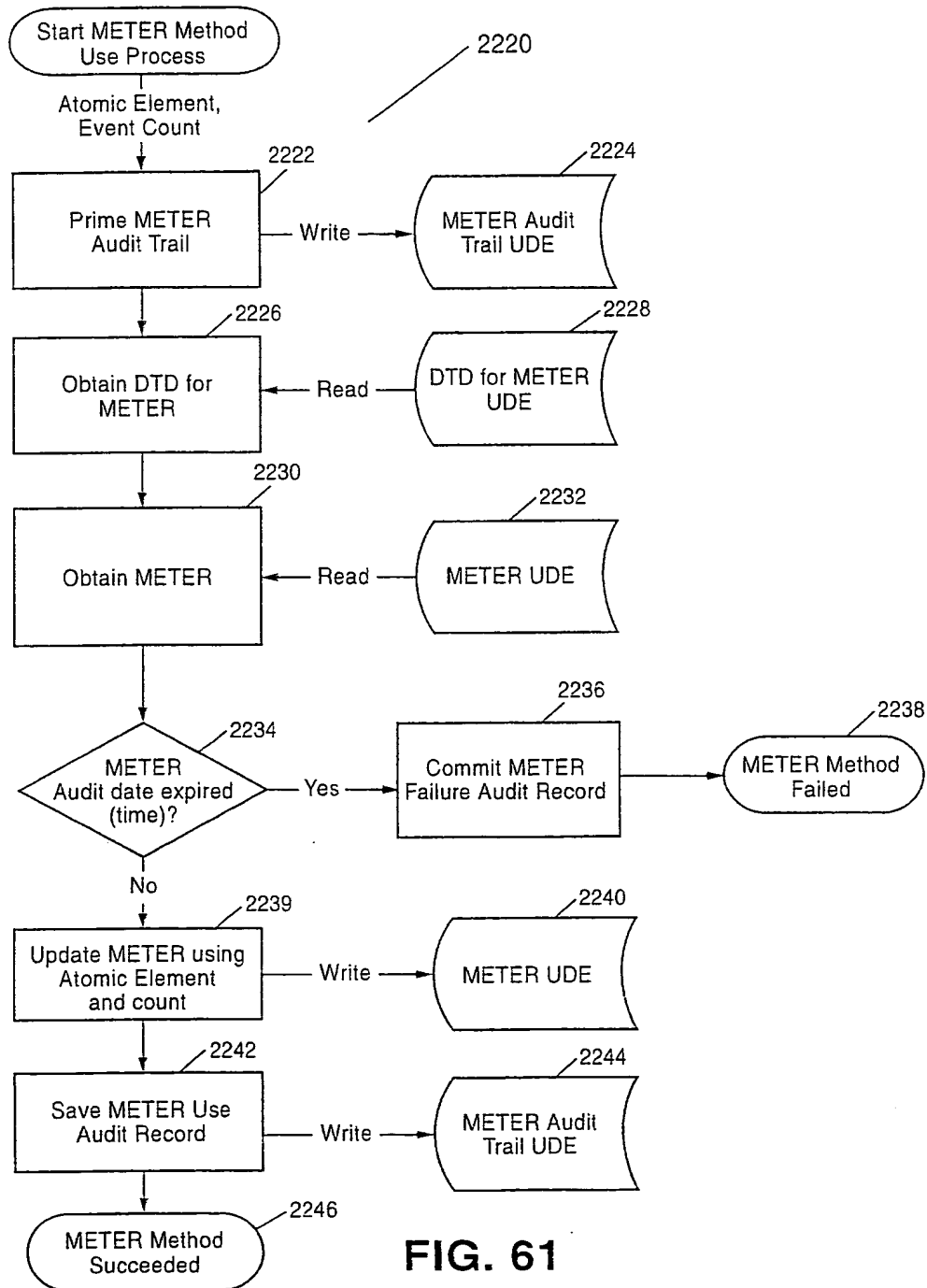
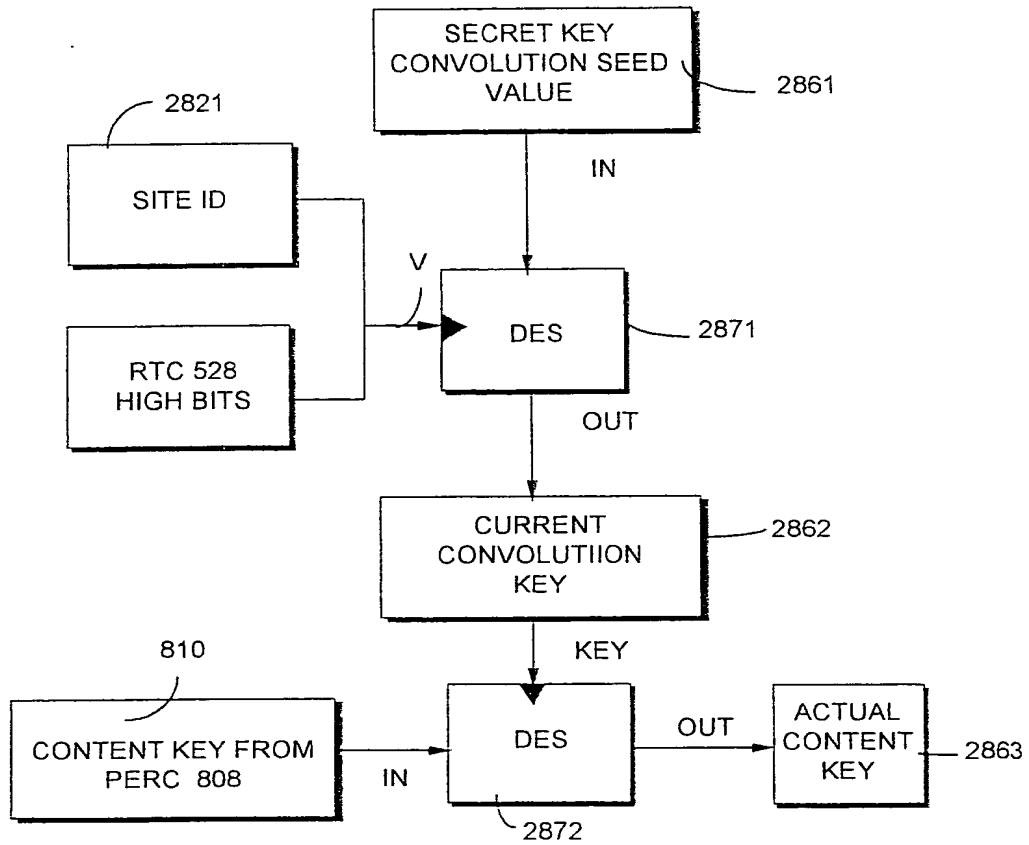


FIG. 61

FIG. 62



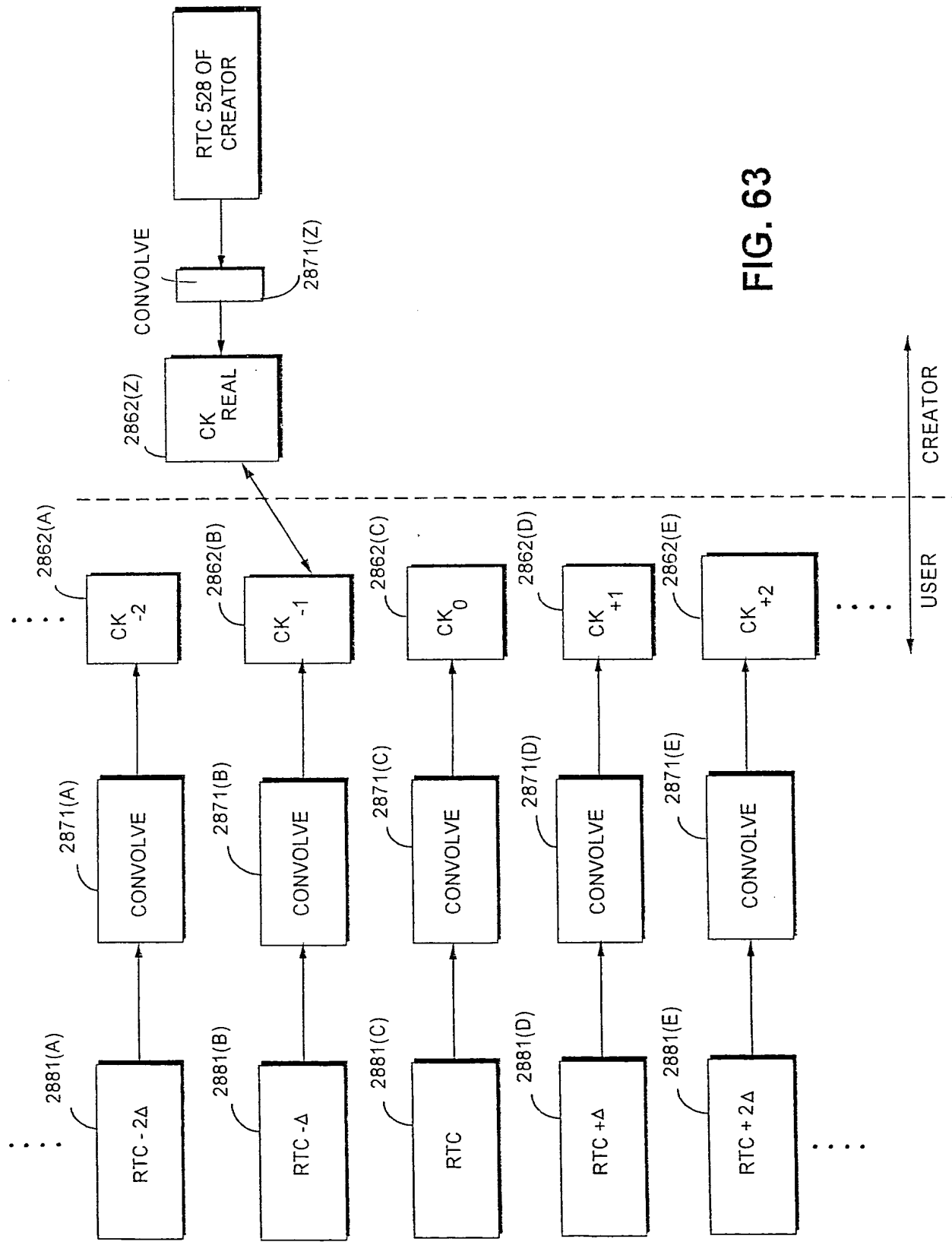


FIG. 63

FIG. 64

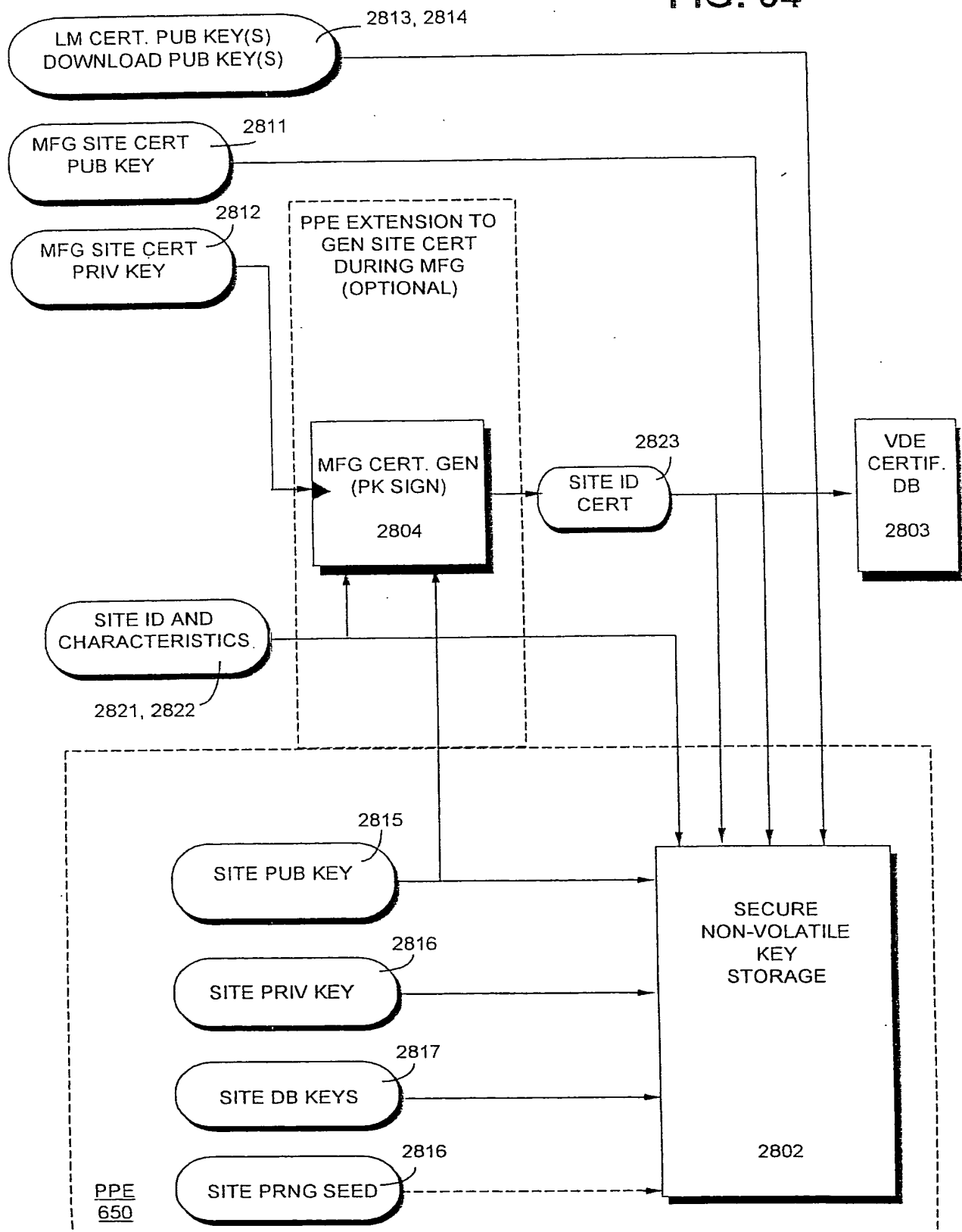


FIG. 65

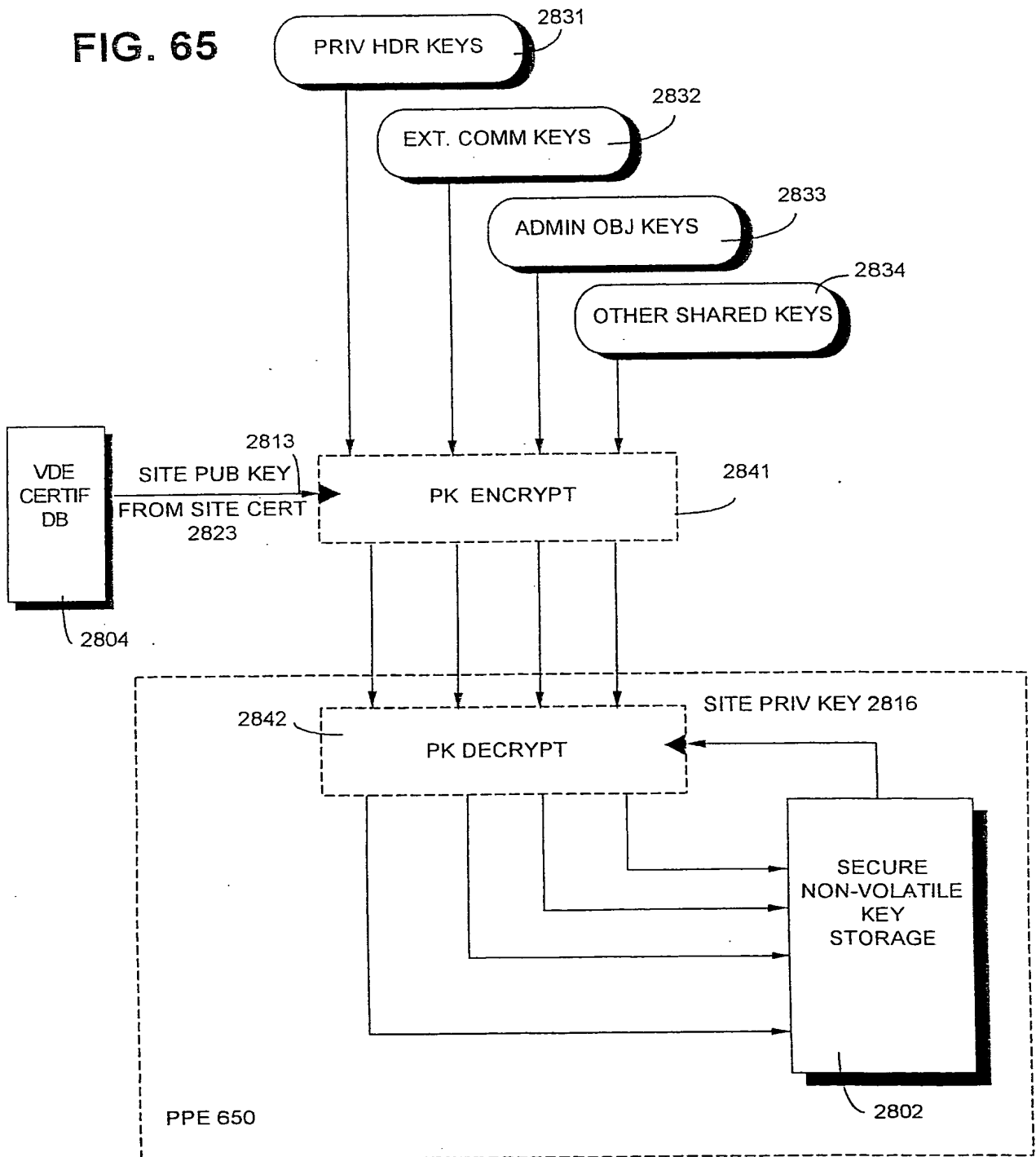
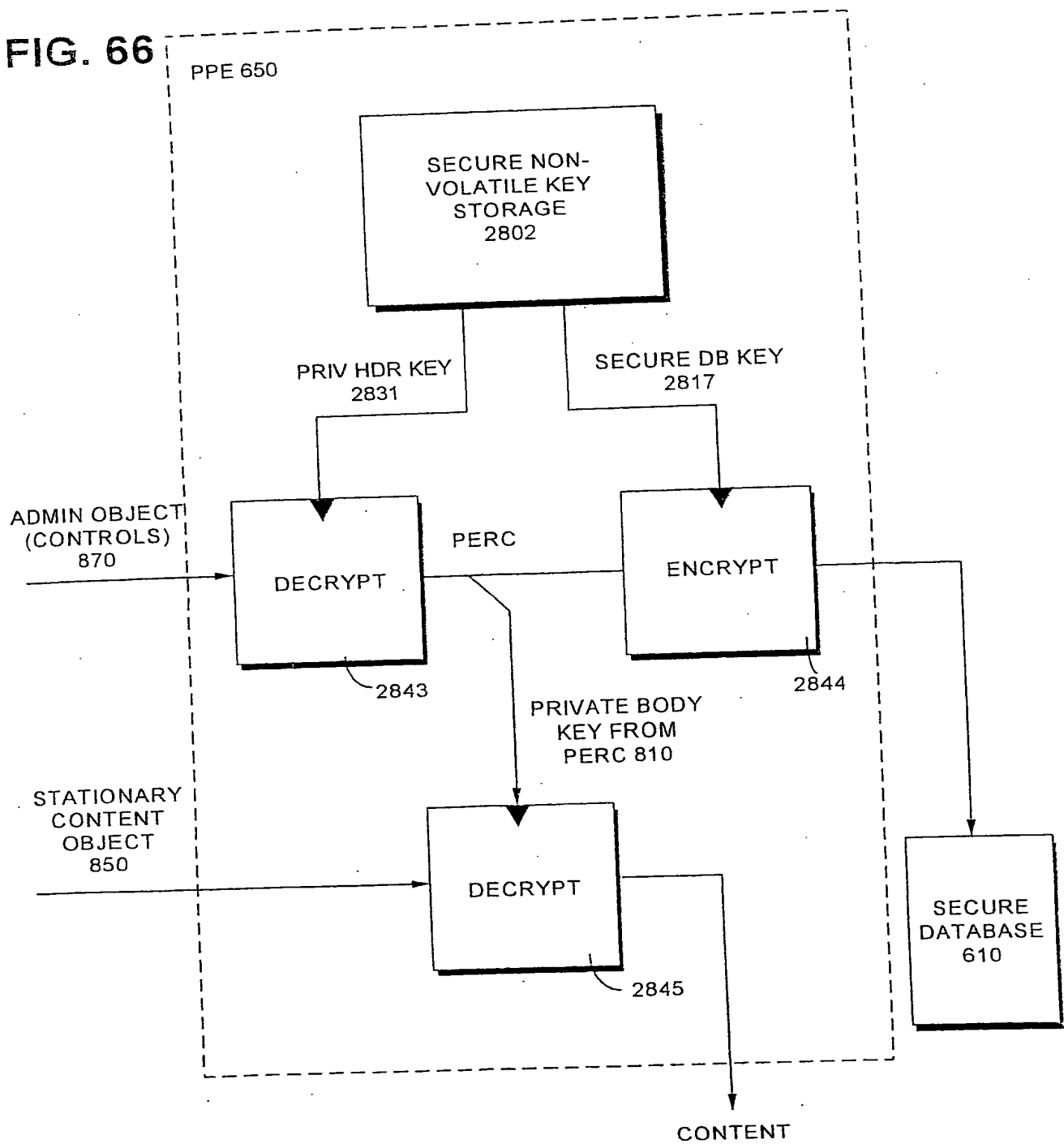


FIG. 66



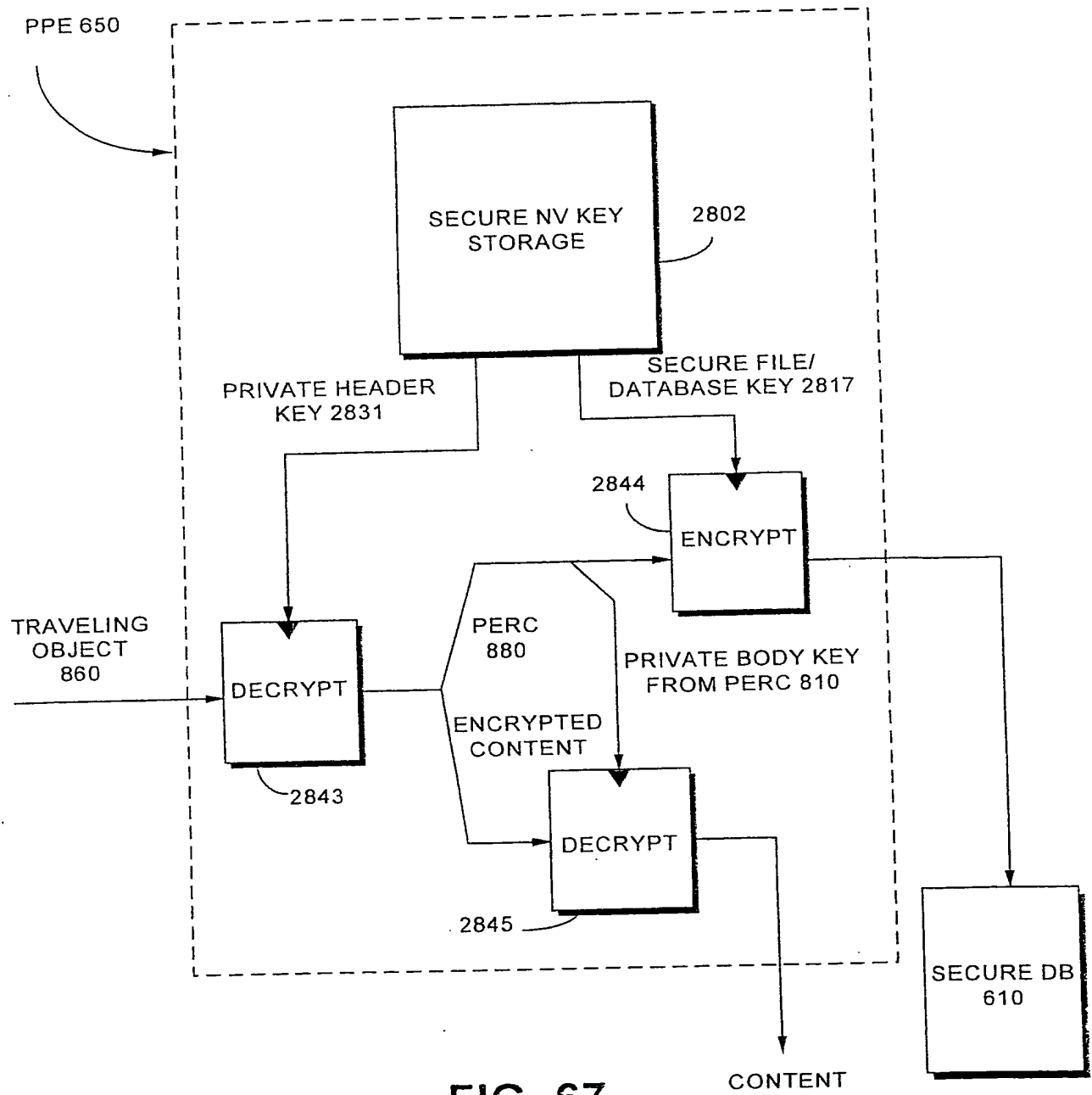


FIG. 68

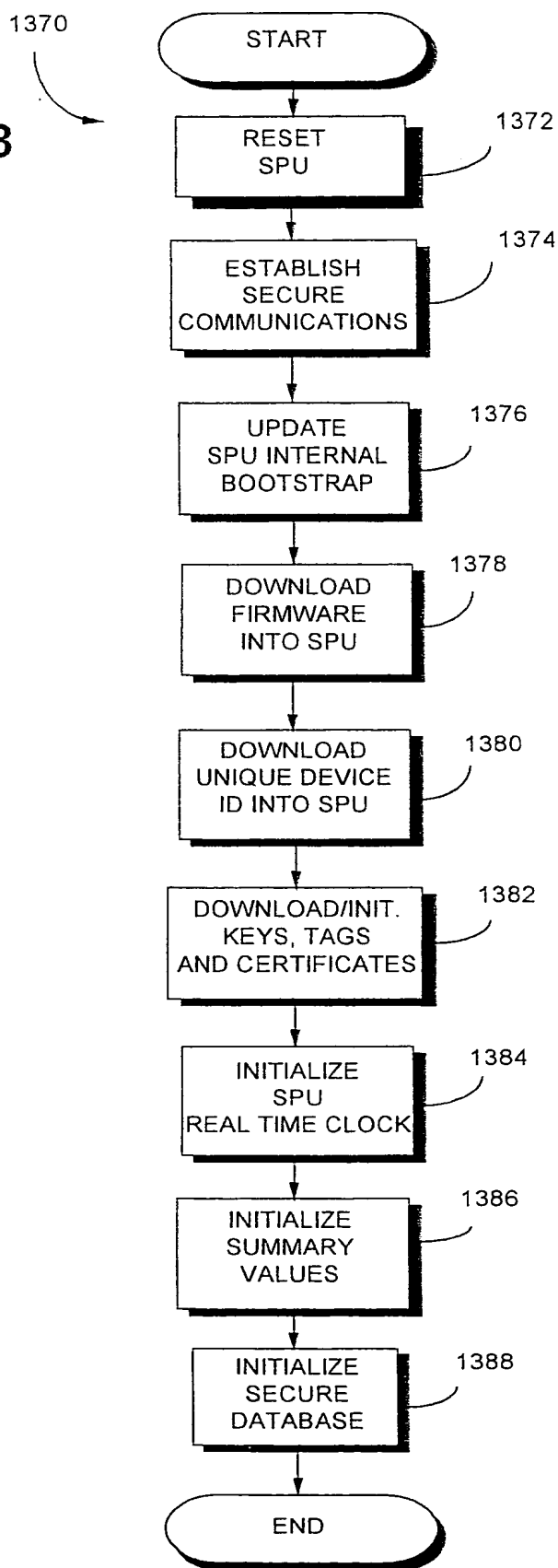
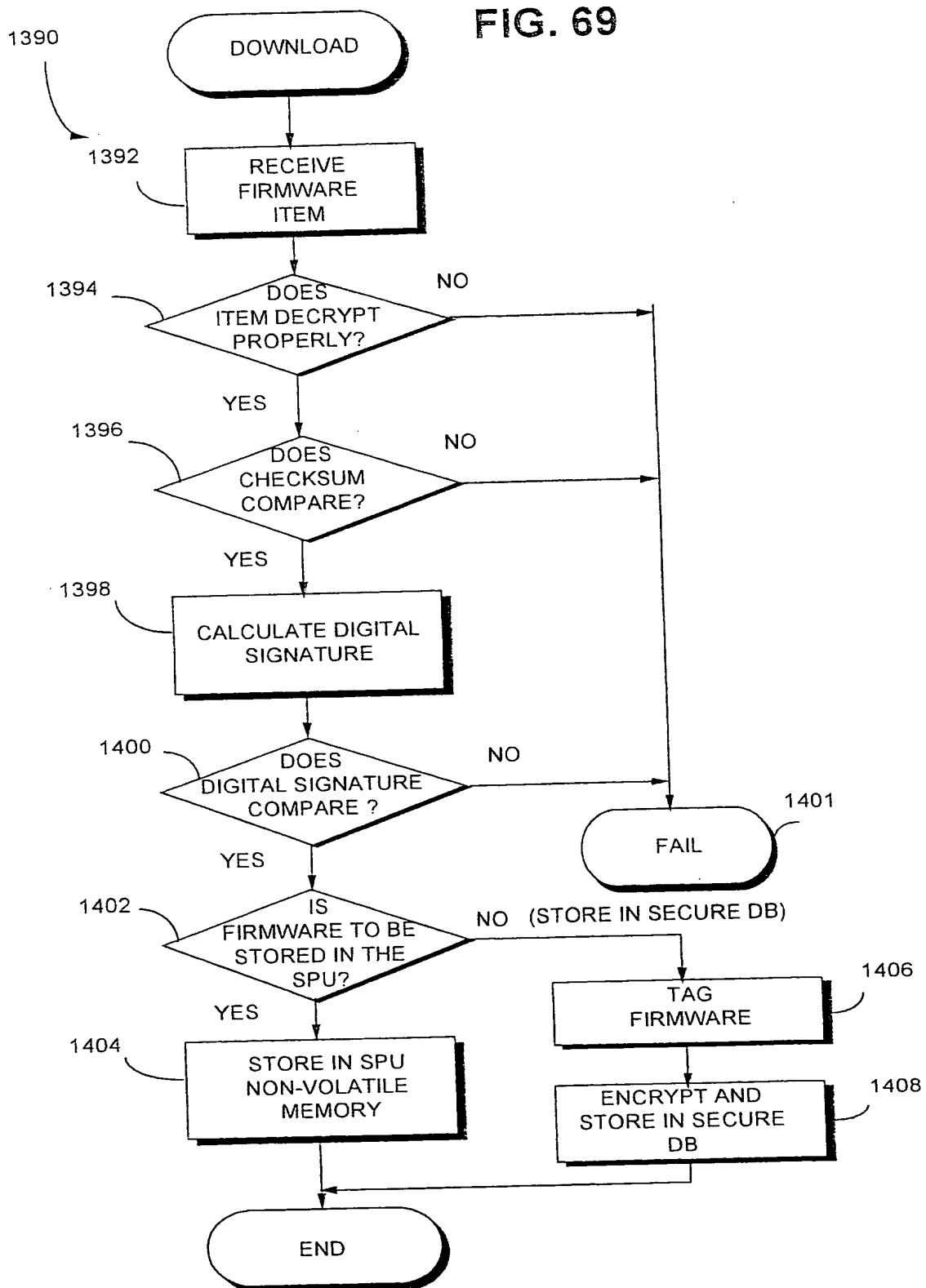


FIG. 69



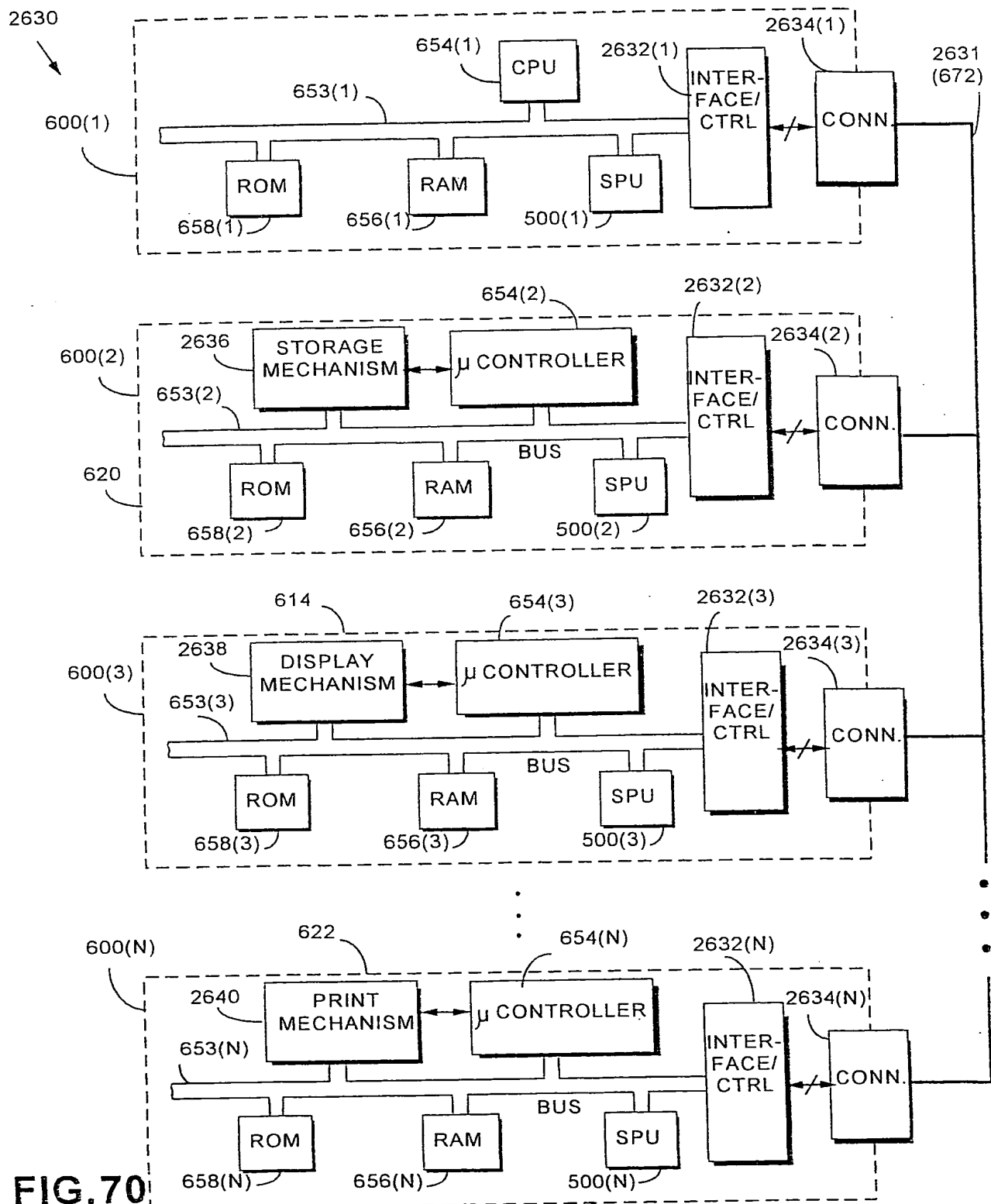
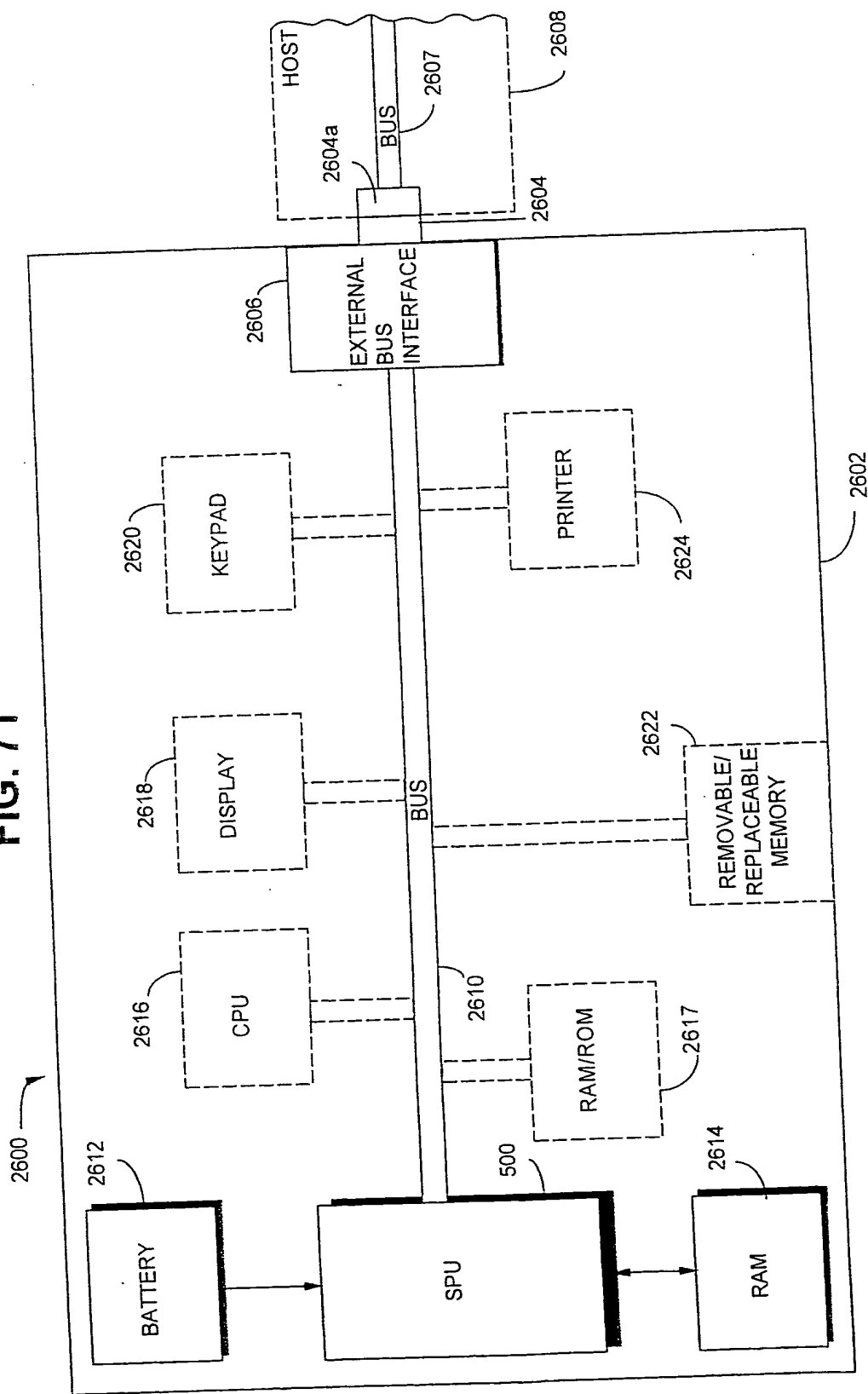


FIG. 70

FIG. 71



LOG IN USER INTERFACE

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USER NAME: SHEAR, V.

PASSWORD: * * * * *

☐ LOGIN AT STARTUP

LOGIN

CANCEL


HELP

FIG. 72A

FIG. 72B

2660

YOU HAVE REQUESTED THESE PROPERTIES:



LOONEY TUNES NEWS!

2662

APPROVE

SUSPEND

2664

PROPERTY INFO

Your Cost: \$7.50

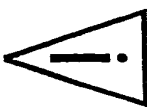
MORE OPTIONS

FIG. 72C

SET LIMITS:

SESSION DOLLAR LIMIT: \$	<div>2666</div> <div>50</div>	<div>2674</div> <div>OK</div>
TRANSACTION DOLLAR LIMIT: \$	<div>50</div> <div>2668</div>	<div>CANCEL</div>
TIME LIMIT (IN MINUTES):	<div>50</div> <div>2670</div>	
UNIT LIMIT:	<div>50</div> <div>2672</div>	<div>HELP!</div>

FIG. 72D



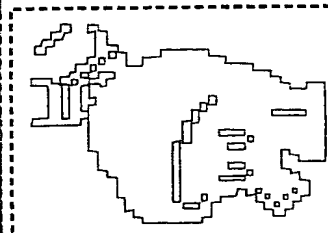
YOU HAVE REQUESTED THESE PROPERTIES:

LOONEY TUNE NEWS!

PROPERTY INFO

YOUR COST : \$7.50

More Options ☒



Show Thumbnail

CANCEL

SUSPEND

APPROVE

PROPERTY:	SIZE:	PUBLISHER:	AMOUNT:	UNITS:	COST/UNIT:	TYPE:	USE?:	LINKS:	HIST:
CHUCK JONES BIOGRA...	256KB	WARNER NEW MEDIA	64	KBYTE	\$1.25	PREVIEW	✓		
▼ BUGS BUNNY.JPE...	1MB	WARNER NEW MEDIA	1	RECORD	\$5.00	DISPLAY	✓		
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	10	RECORD	\$3.50	DISPLAY			
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	25	RECORD	\$2.50	DISPLAY			
FRIZ FRELENG BIOGRA...	256KB	WARNER NEW MEDIA	120	SECTOR	\$5.00	PRINT			
TEX AVERY BIOGRAP...	256KB	WARNER NEW MEDIA	50	PERCENT	\$2.50	COPY			
► DUCKI RABBITI DU...	64MB	WARNER NEW MEDIA	7.0	MINUTE	\$7.50	COPY-PRO			
MEL BLANC BIOGRAPH...	256KB	WARNER NEW MEDIA	1	SPECIAL	\$25.25	INSTALL			
LOONEY TUNES DATAB...	600MB	WARNER NEW MEDIA	1	OBJECT	\$2000.00	ALL			

SET LIMITS...	SHOW BUDGETS	ACQUIRE BUDGET...	HISTORY...	TRANSFER...	PREFERENCES...	FEEDBACK...	HELP!
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FIG. 73

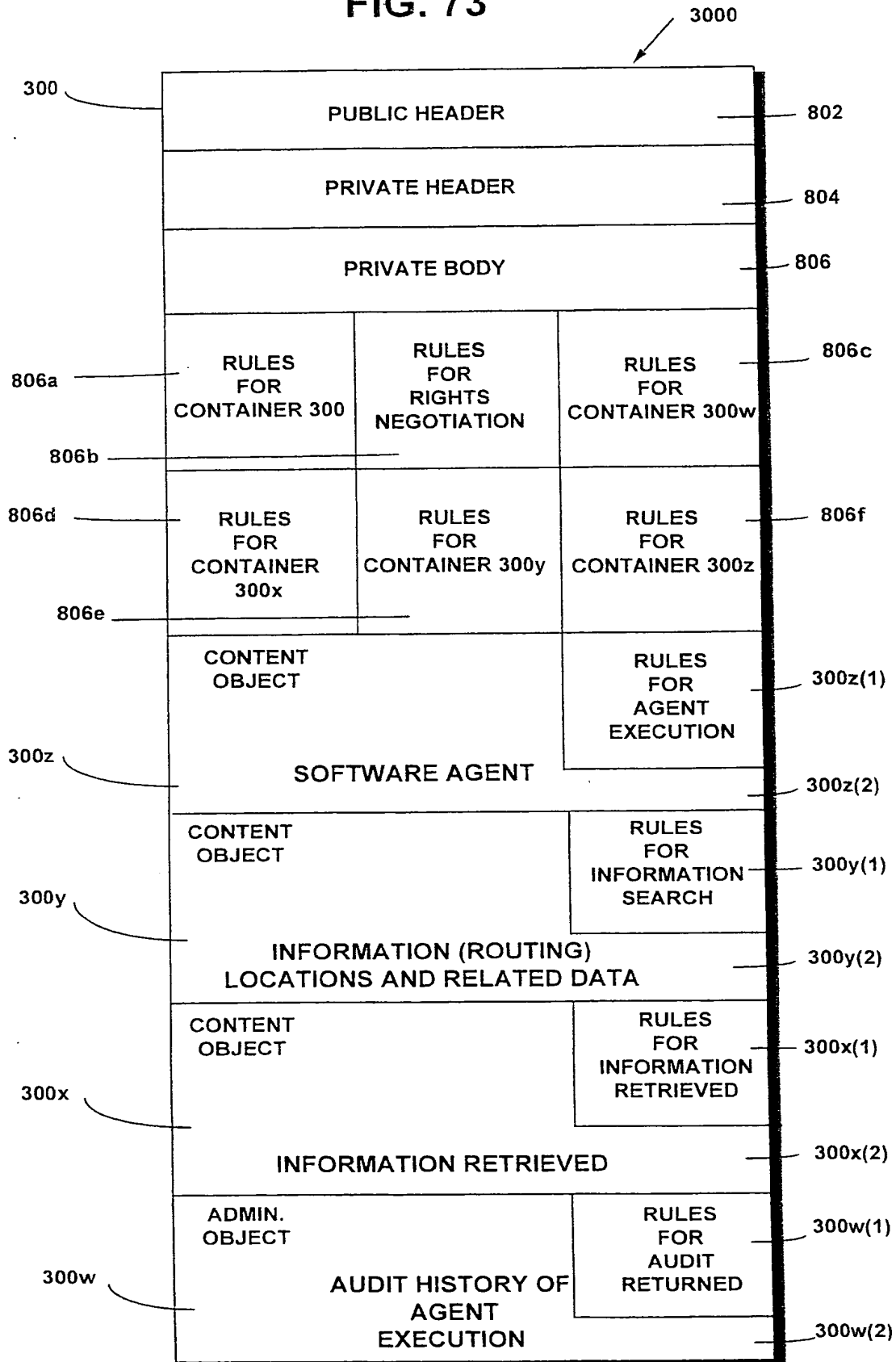


FIG. 74

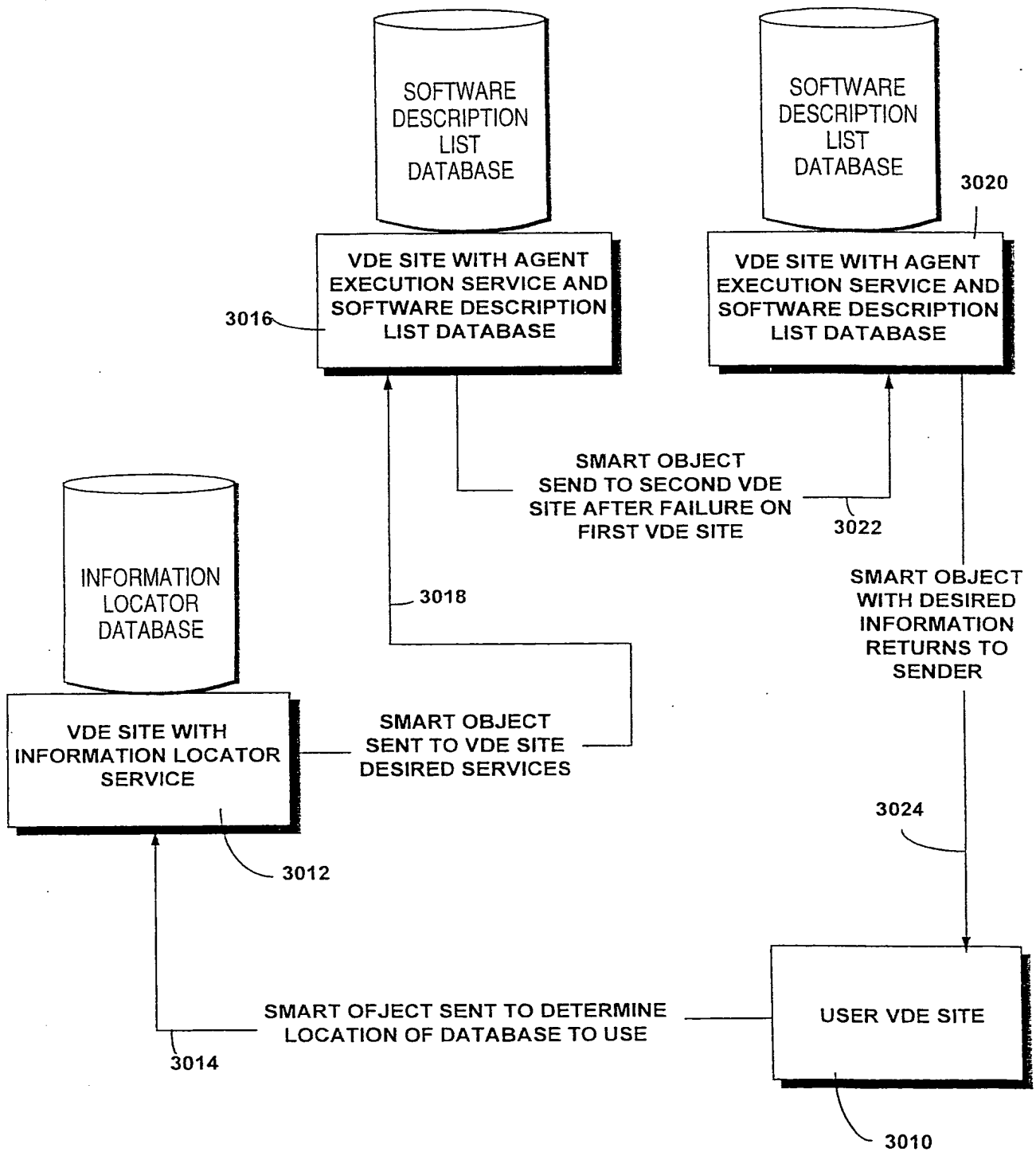


FIG. 75A

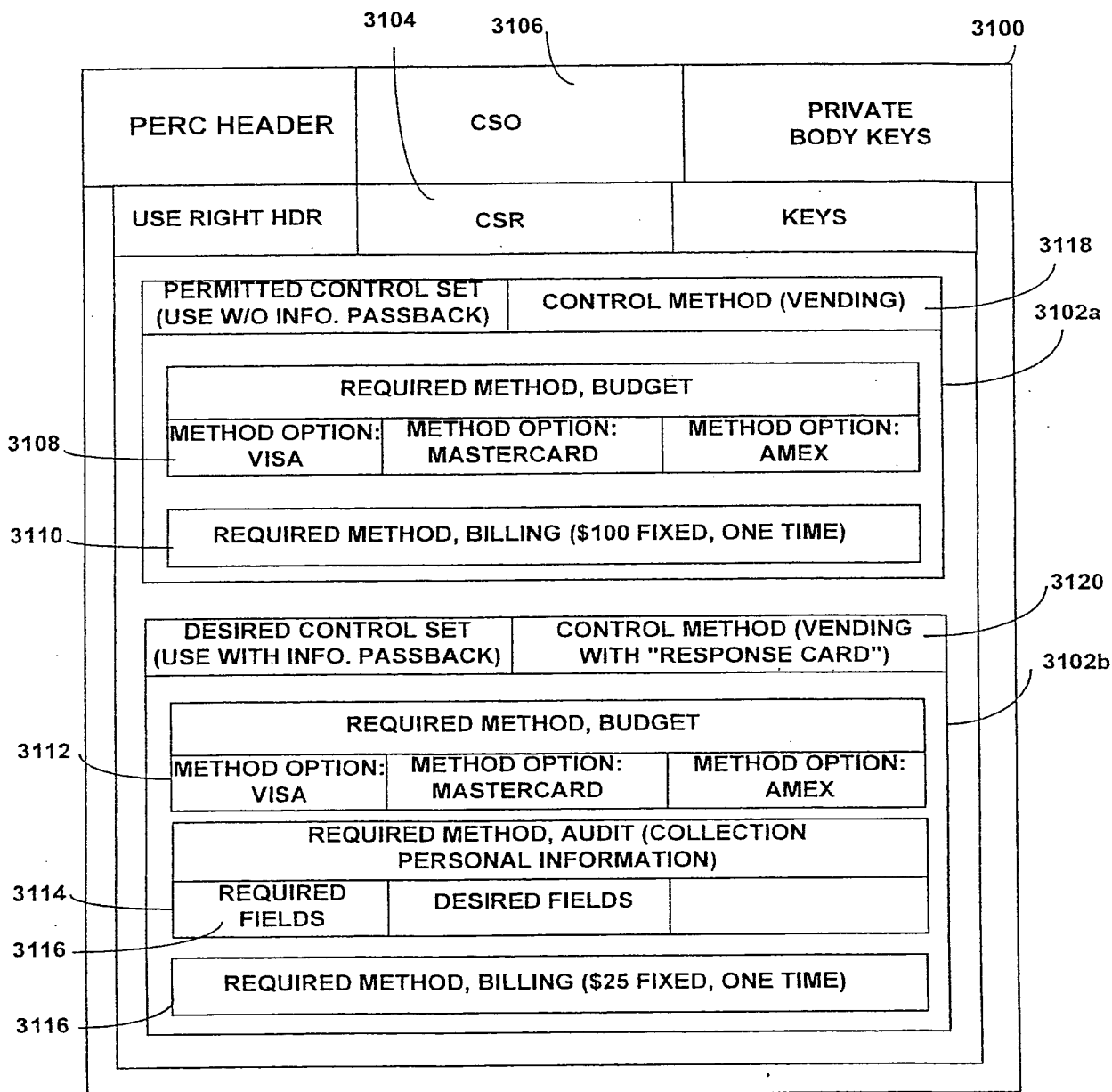


FIG. 75B

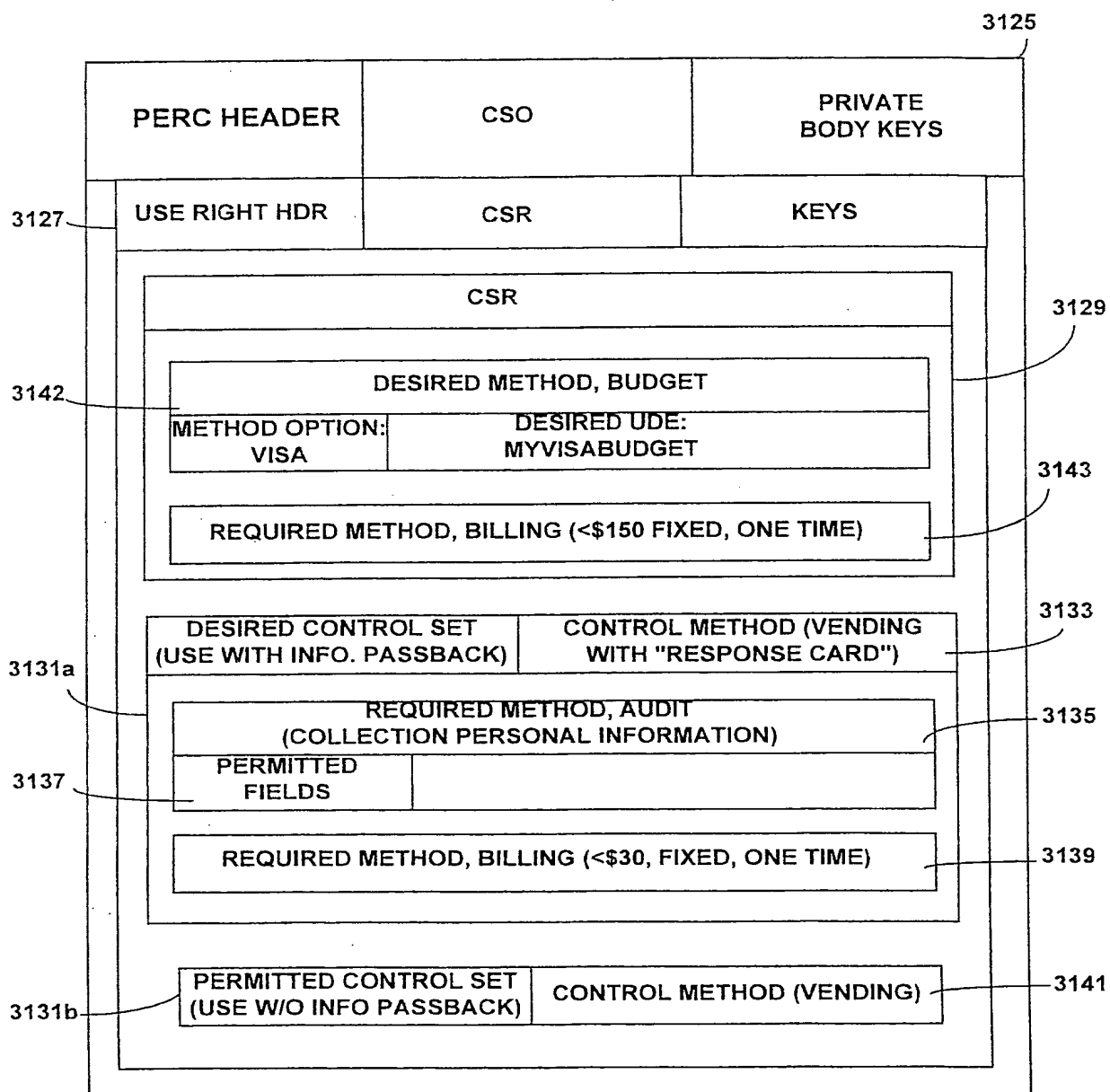


FIG. 75C

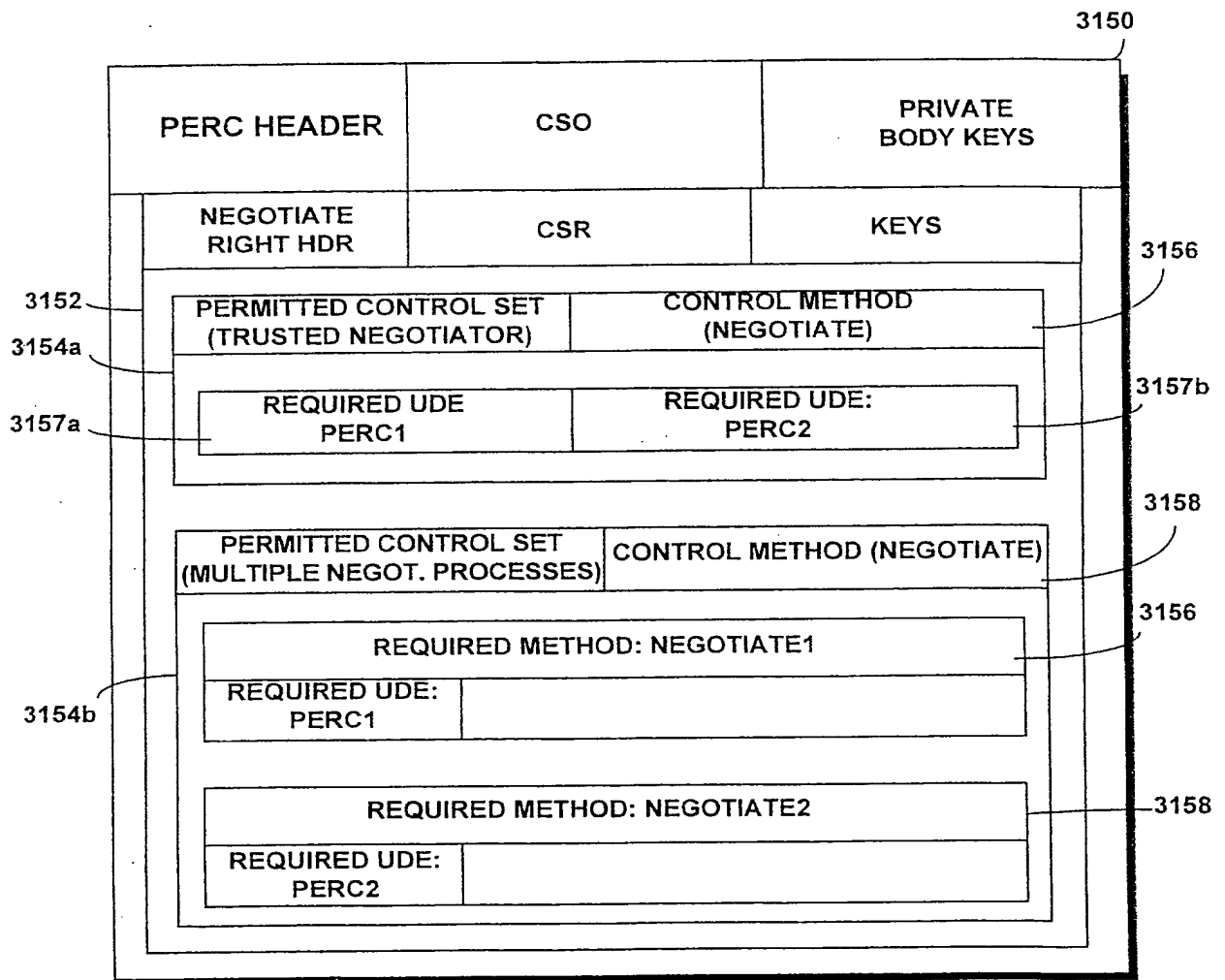
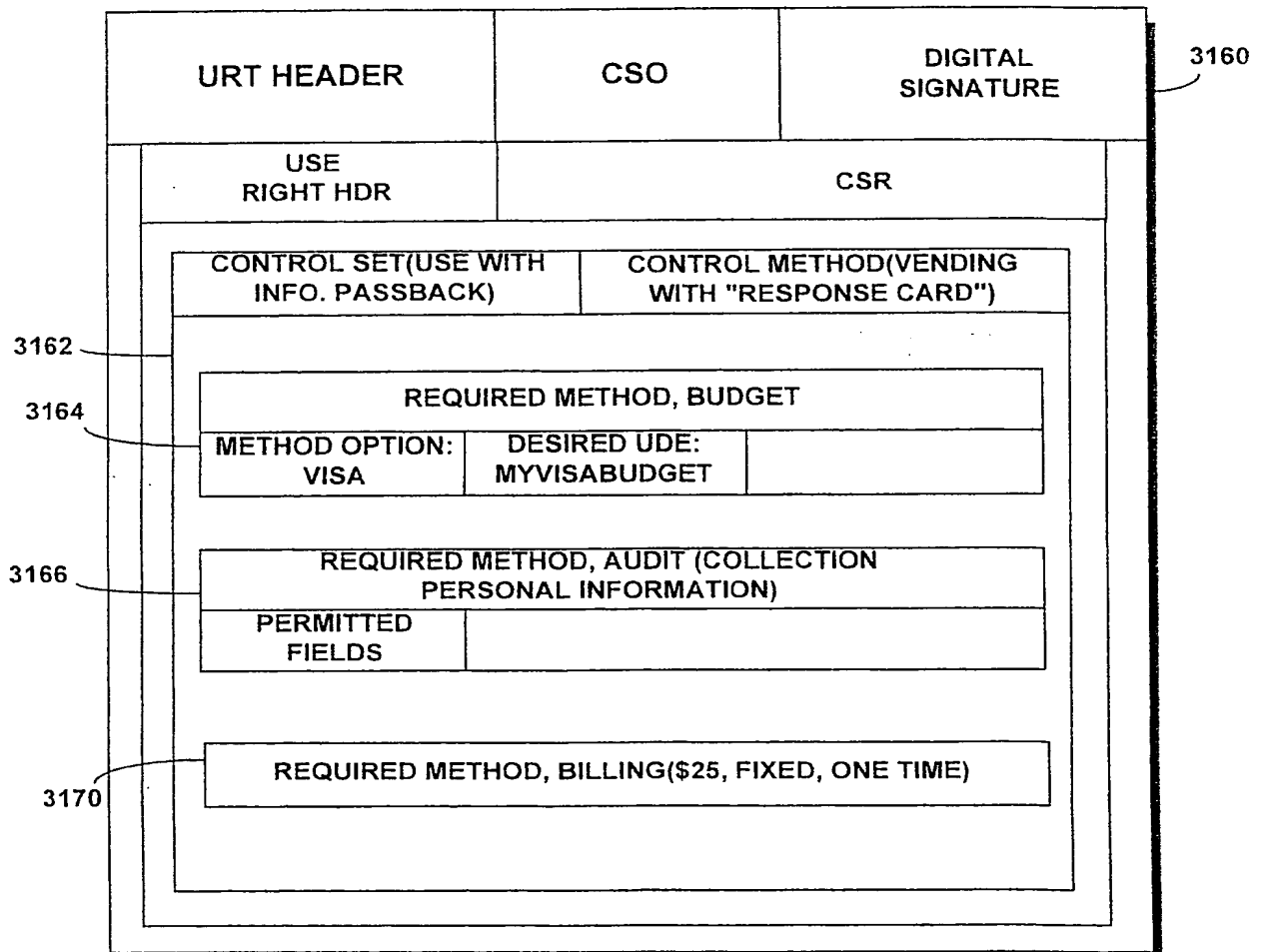


FIG. 75D



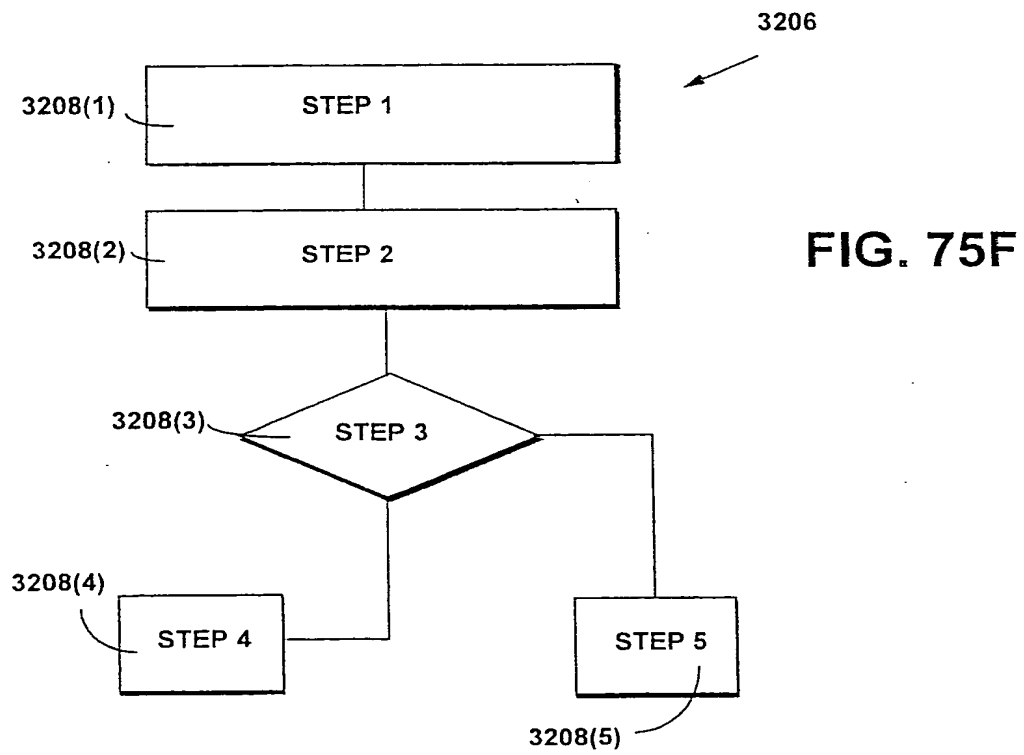
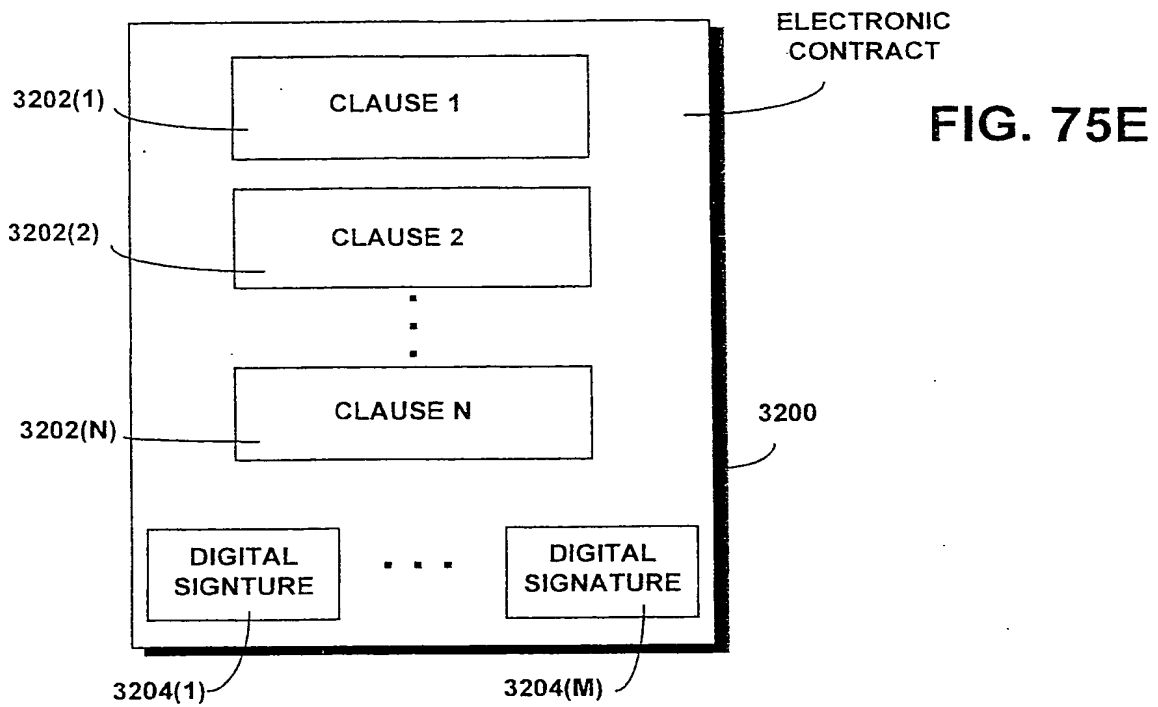


FIG. 76A

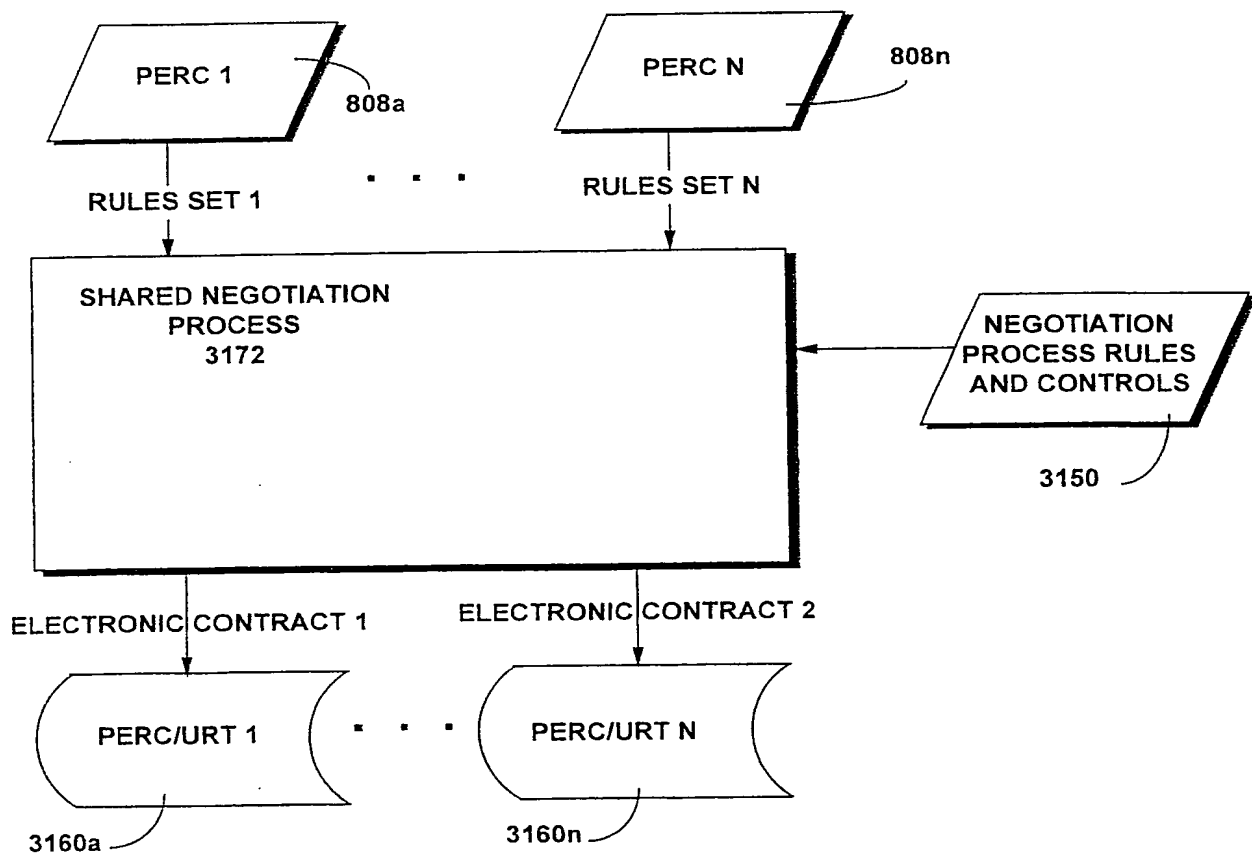


FIG. 76B

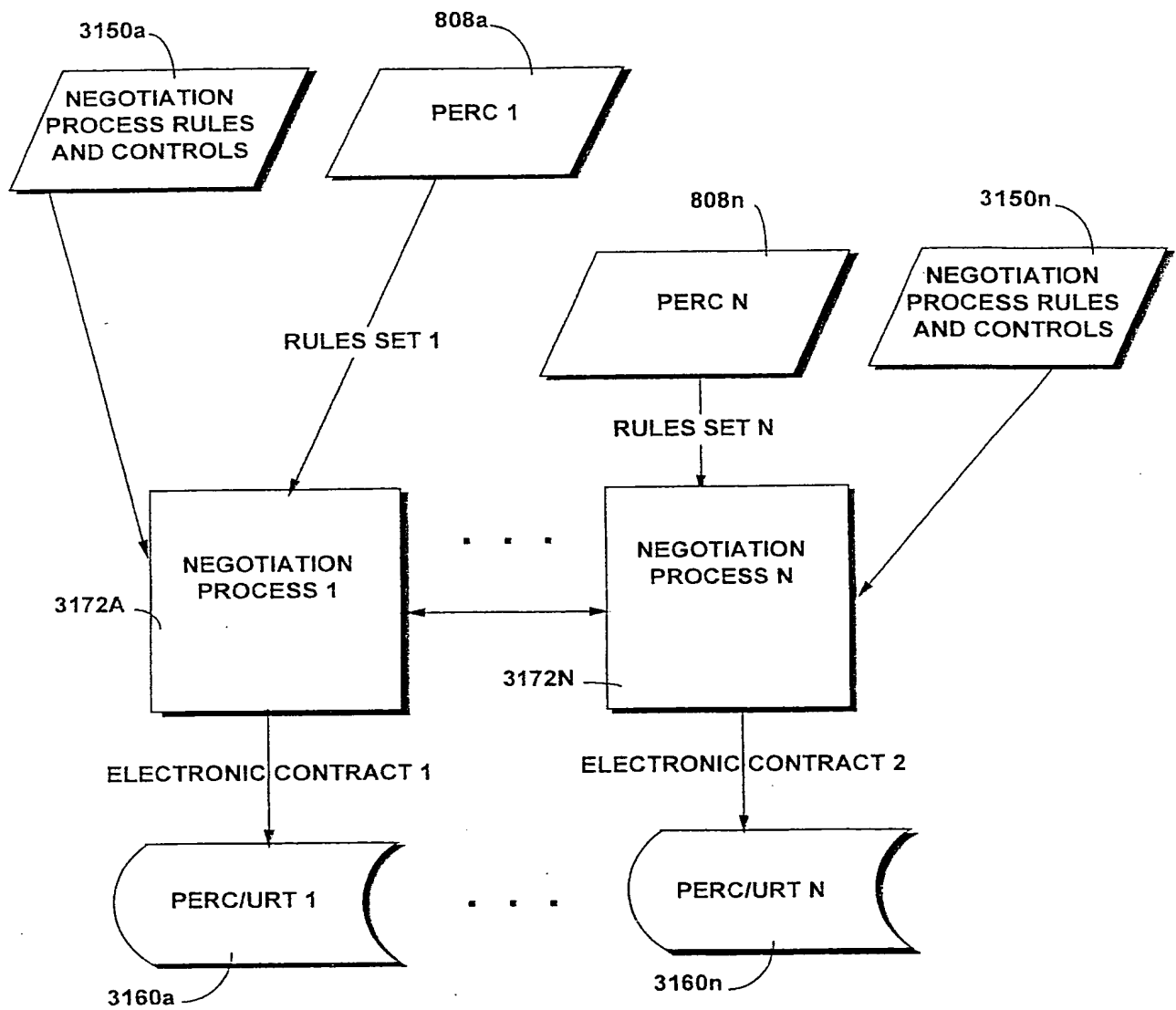
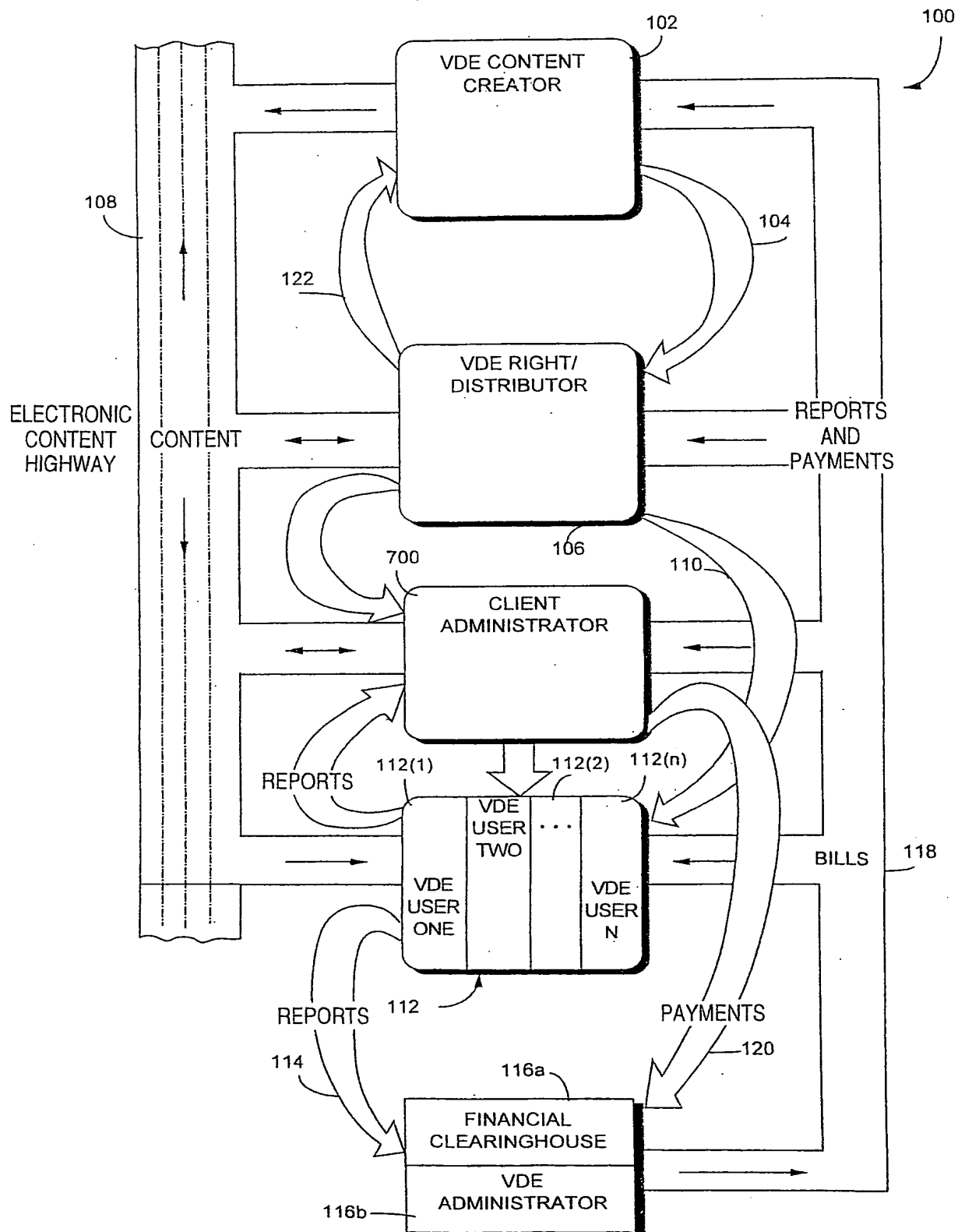


FIG. 77



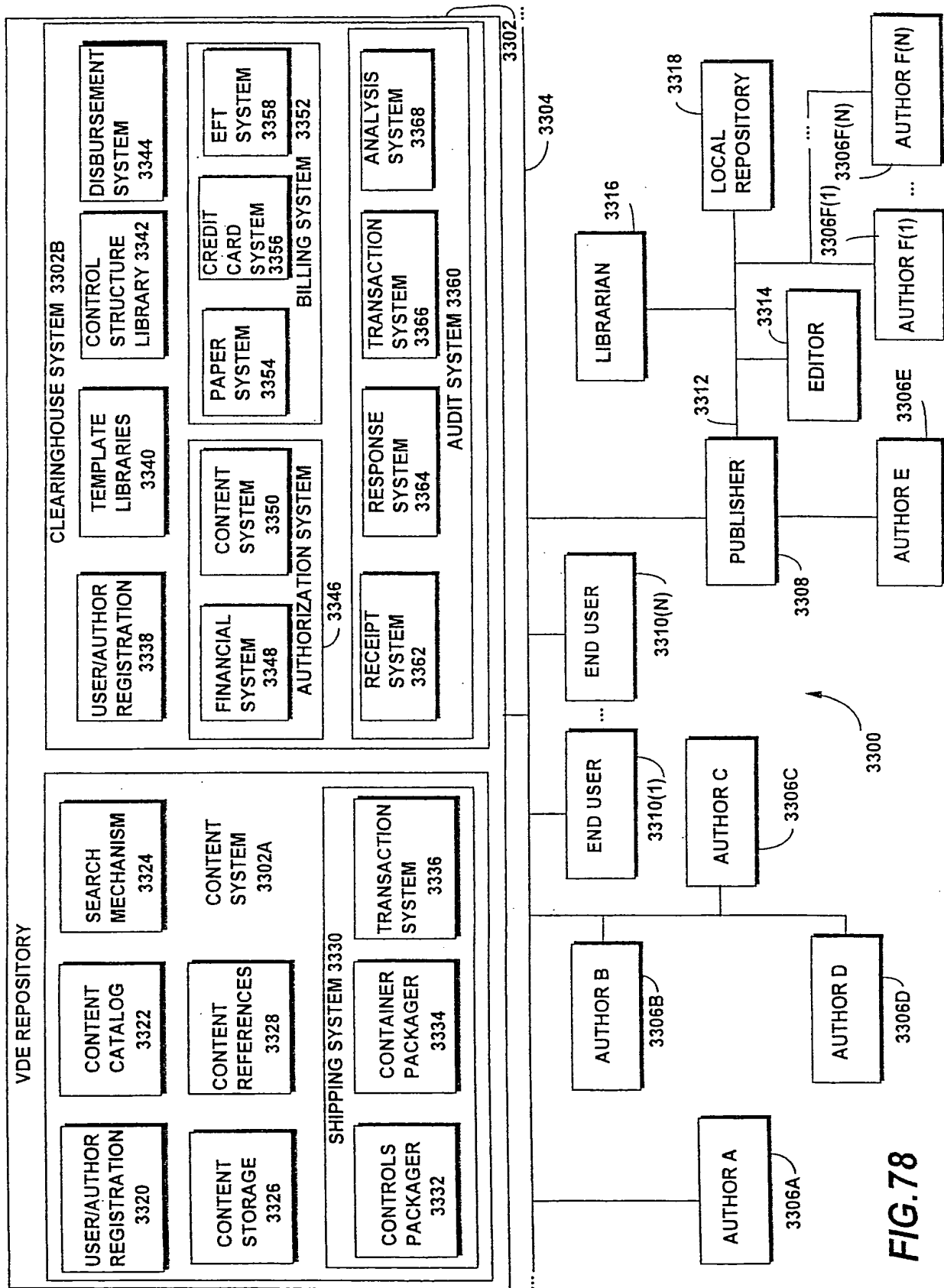


FIG.78

FIG. 79

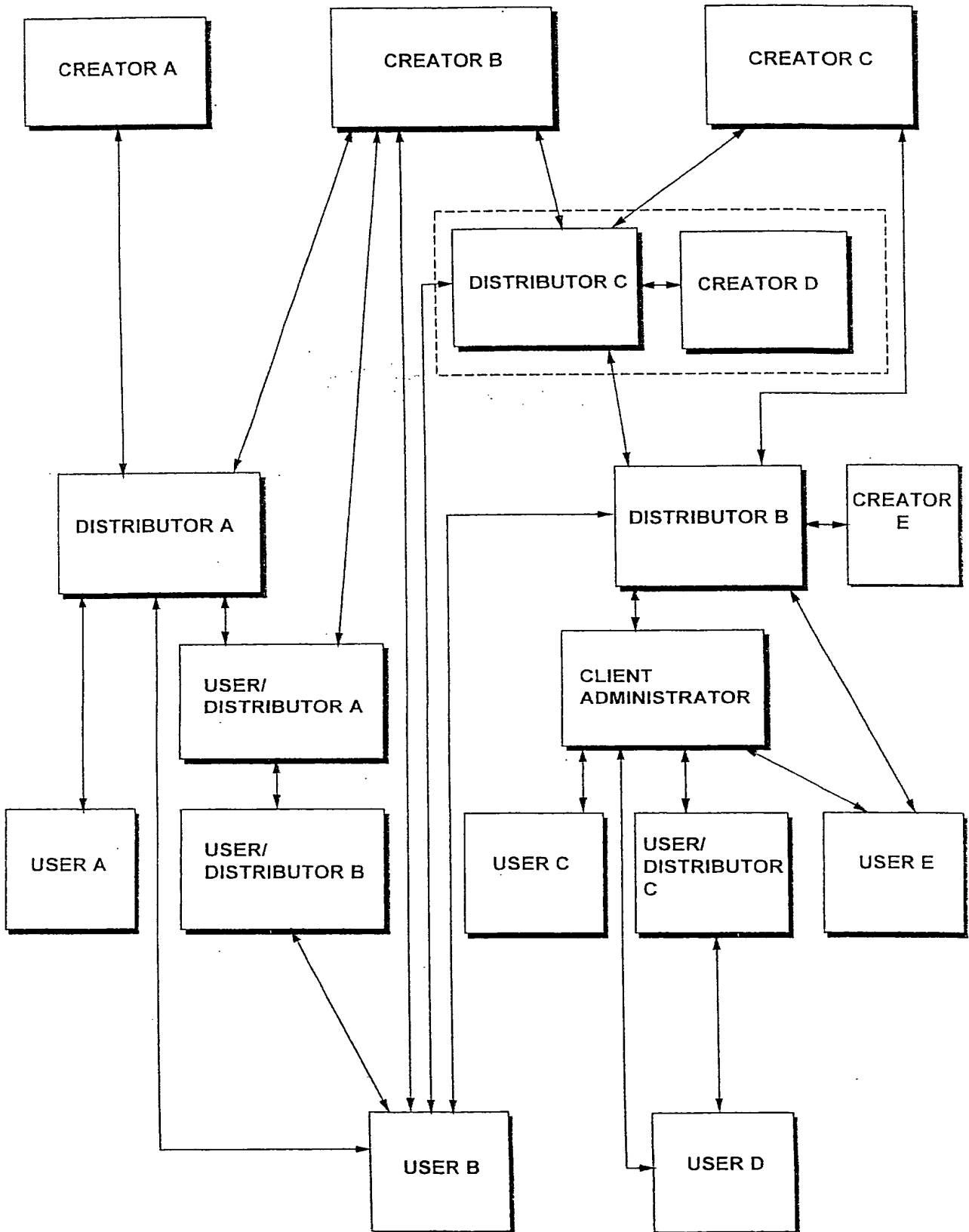


FIG. 80

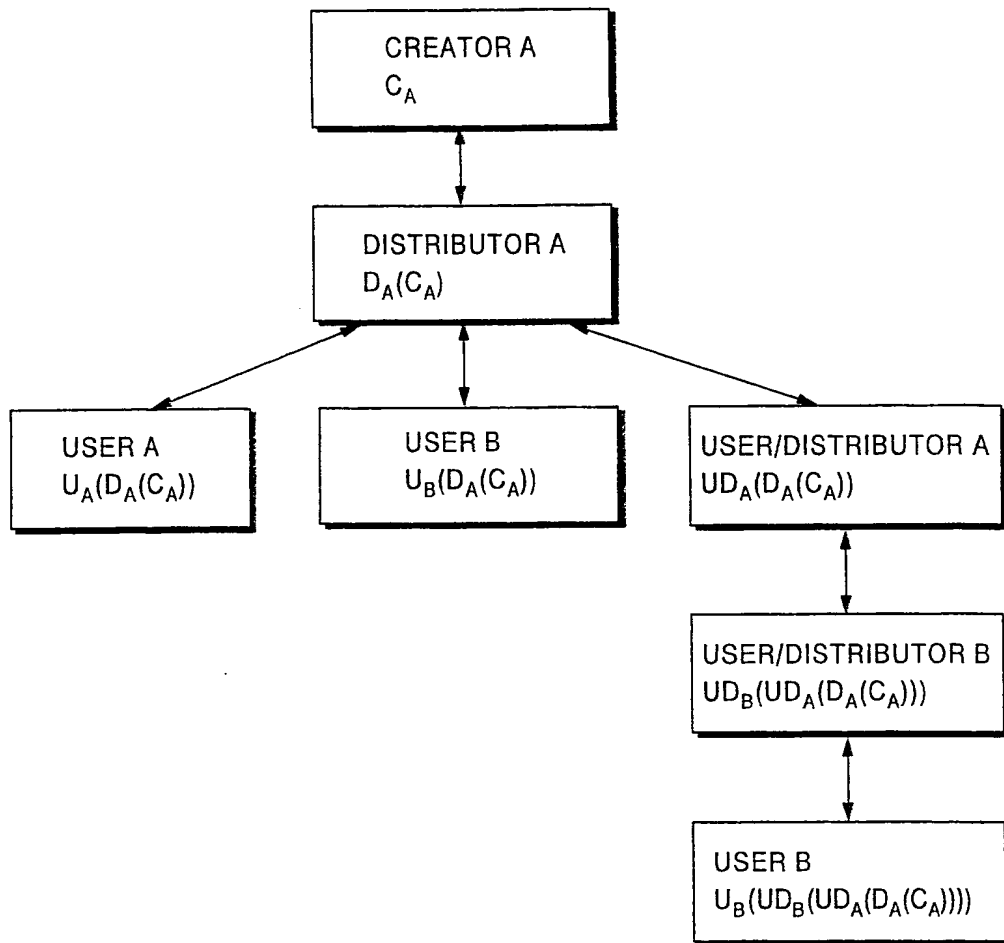


FIG. 81

The diagram illustrates a cryptographic distribution system. At the top is **CREATOR B** (C_B). It connects to **DISTRIBUTOR A** ($D_A(C_B)$), **DISTRIBUTOR B** ($D_B(C_B)$), and **DISTRIBUTOR C** ($D_C(C_B)$). Each distributor then connects to a **USER/DISTRIBUTOR** pair (A, B, C) and a **USER** (A, B, C, D, E). These pairs and users then connect to a **CLIENT ADMINISTRATOR** ($CA(D_B(D_C(C_B)))$) which in turn connects to a final **USER/D** pair and a final **USER** ($U_D(CA(D_B(D_C(C_B))))$). The diagram shows multiple levels of encryption and decryption using keys C_B , D_A , D_B , D_C , and C_A .

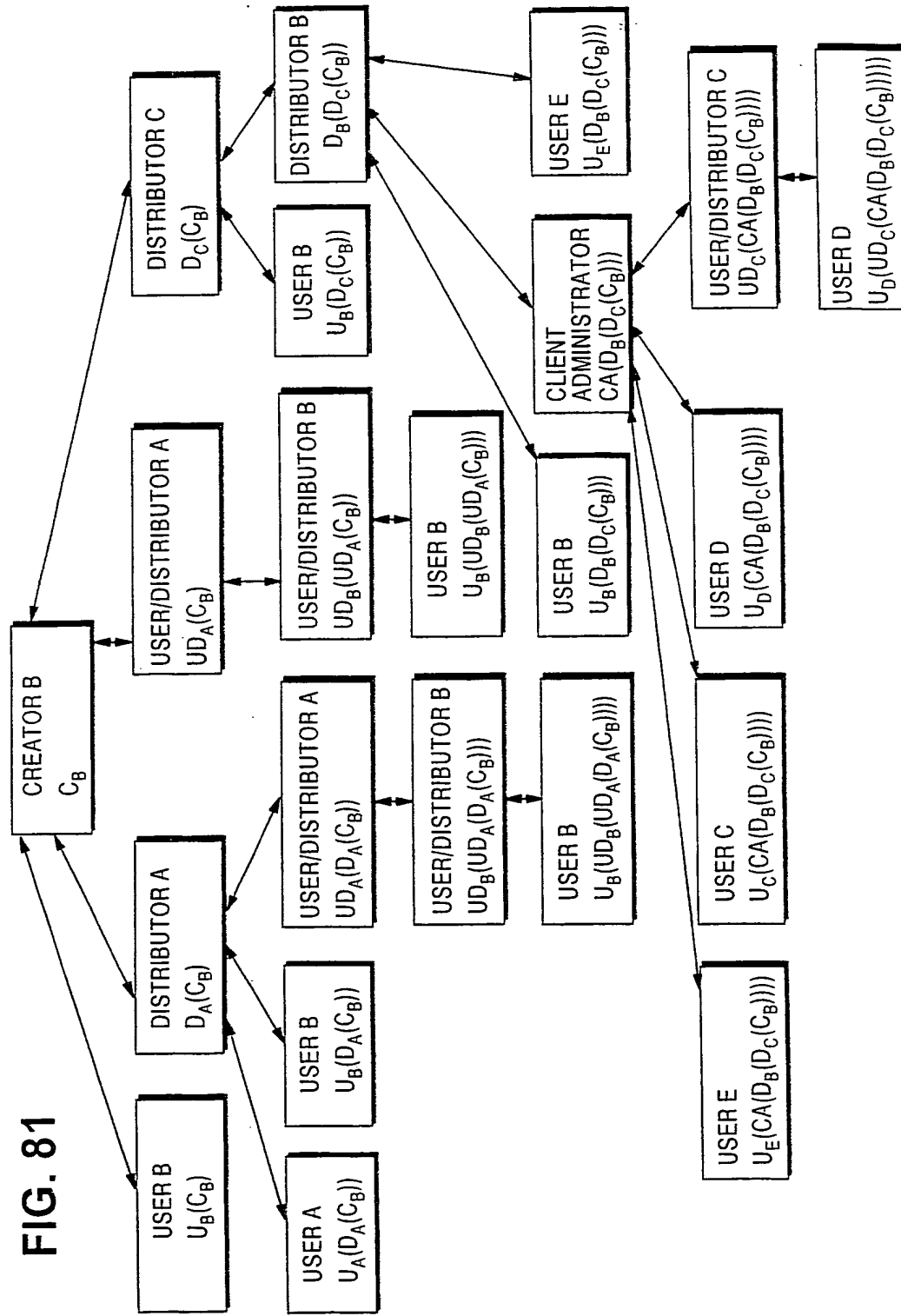


FIG. 82

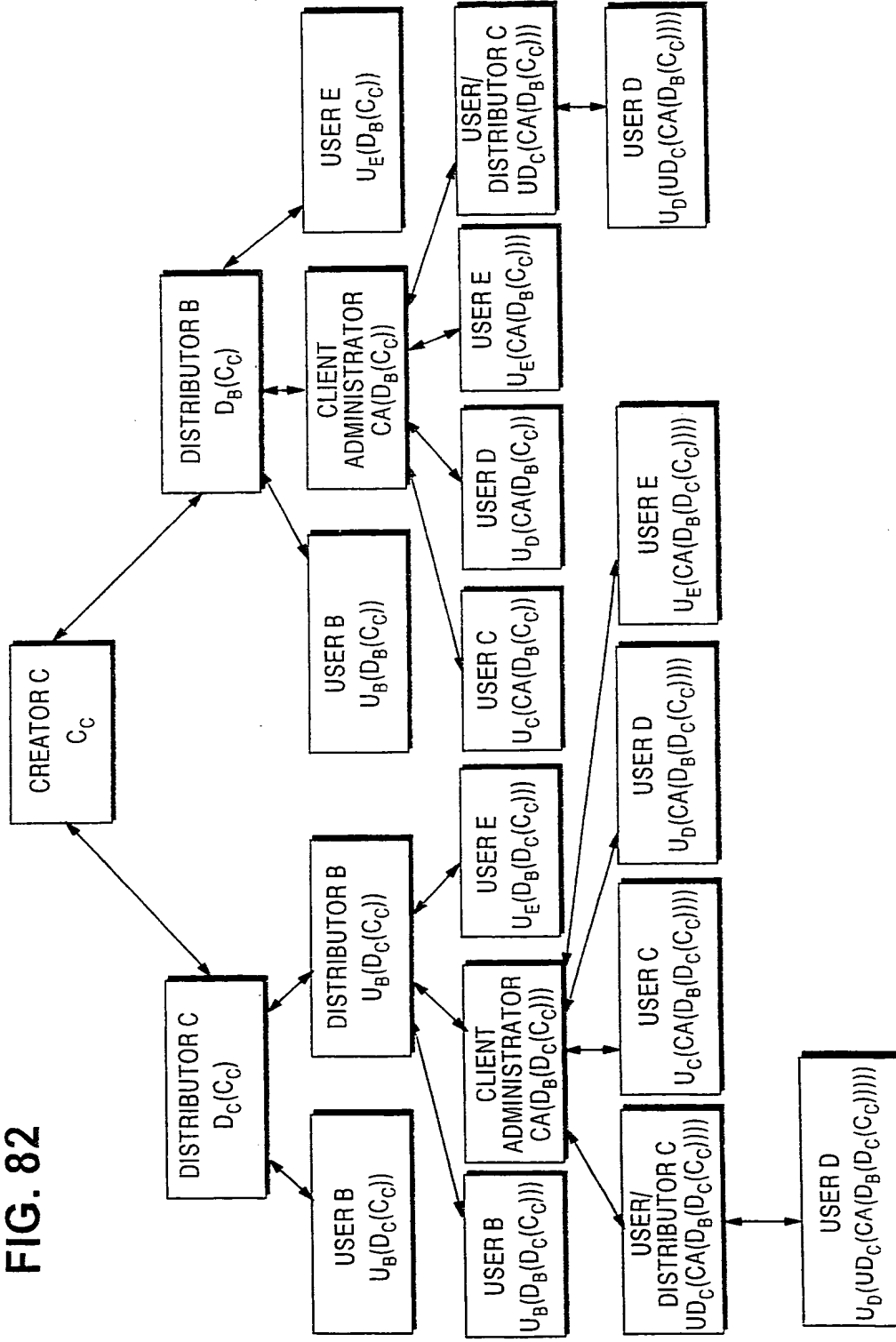


FIG. 83

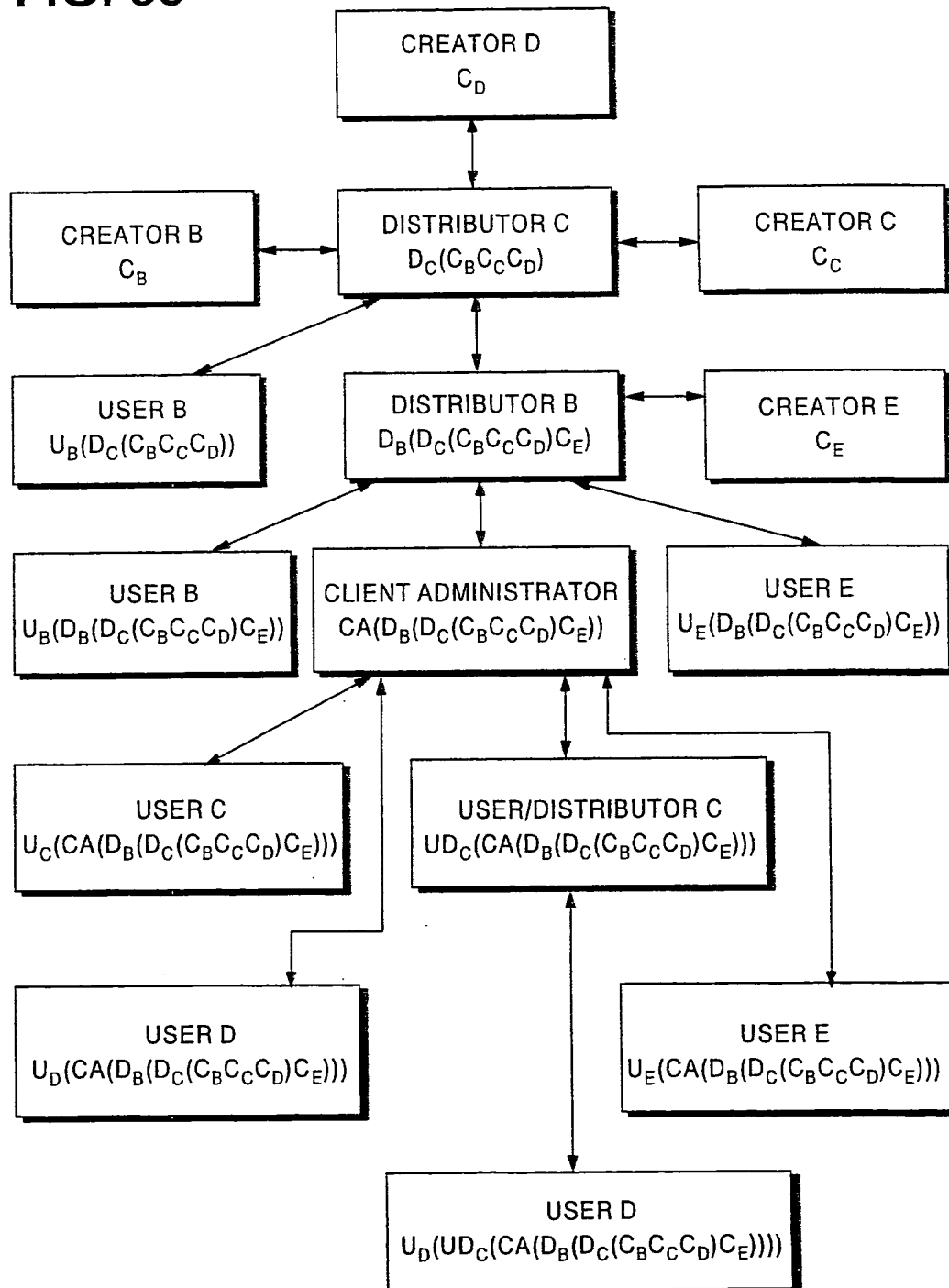


FIG. 84

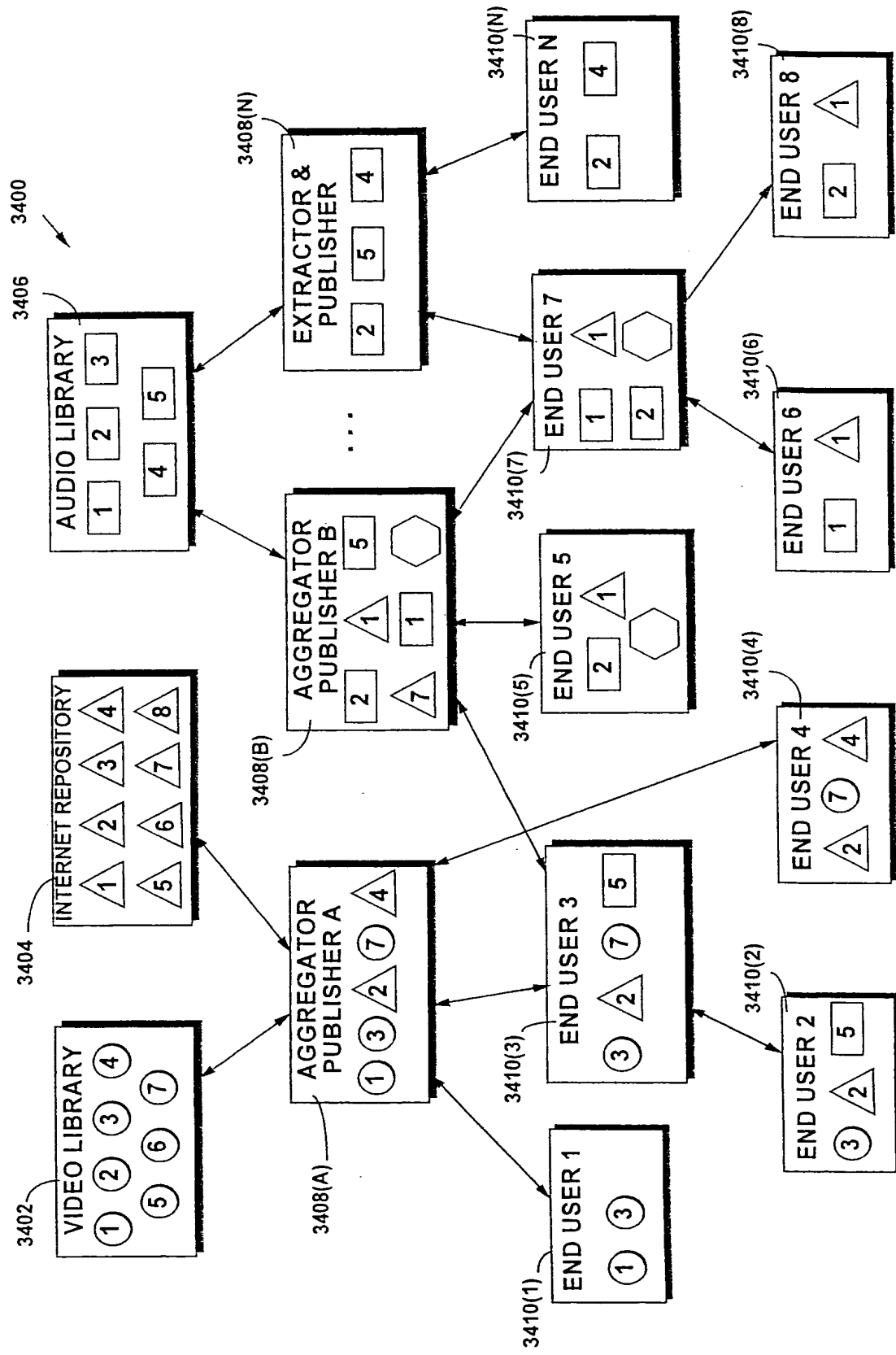
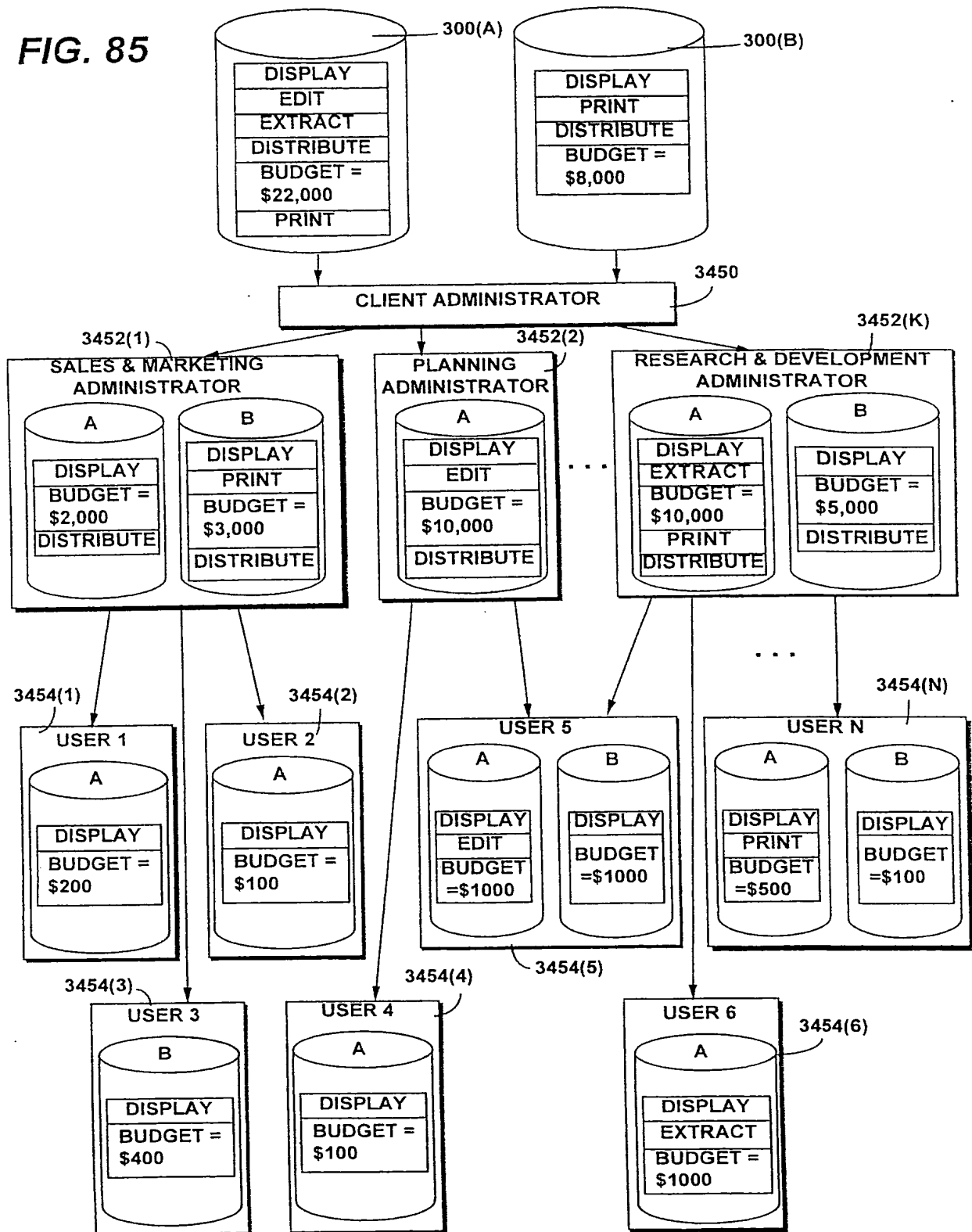


FIG. 85



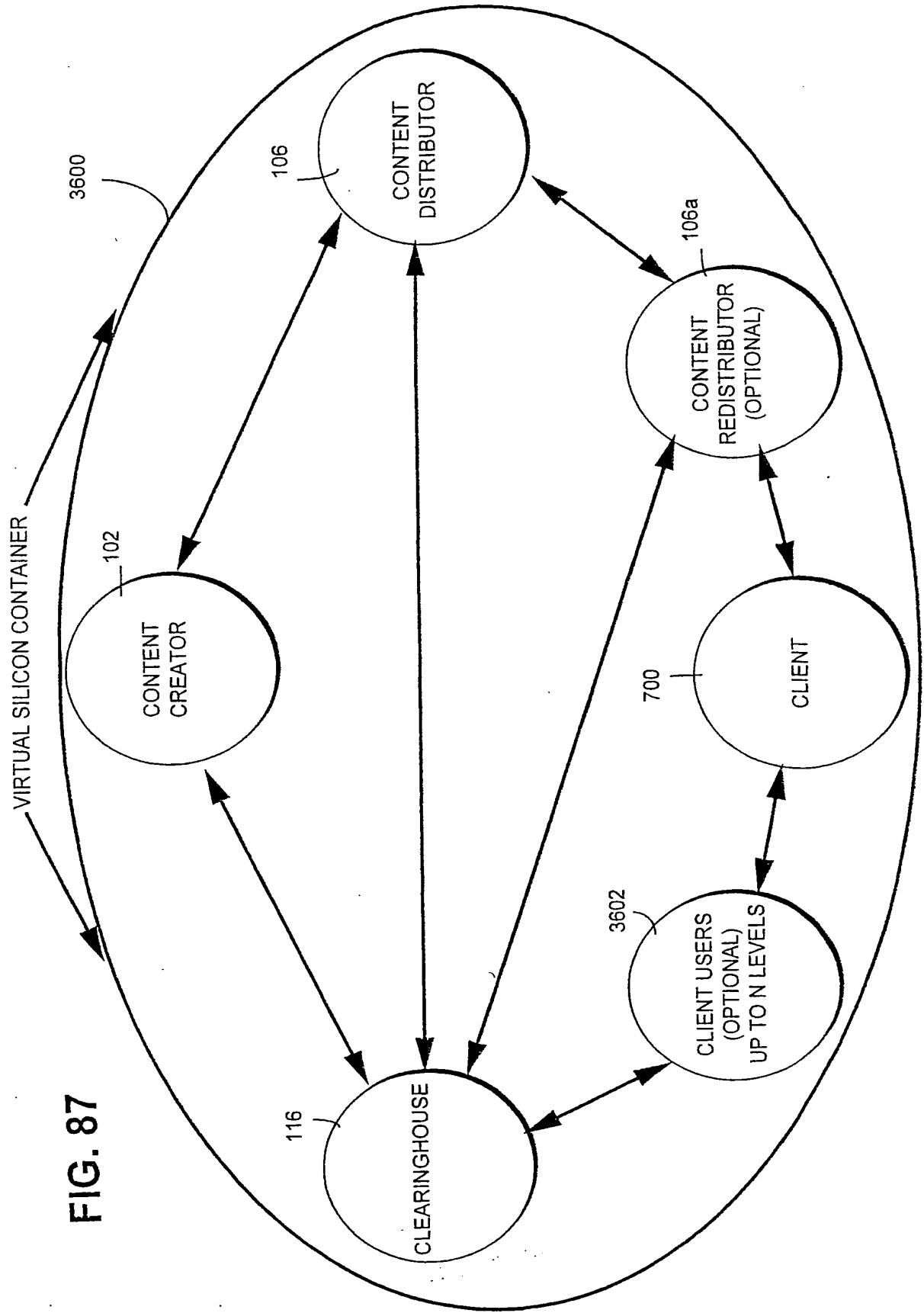


FIG. 87